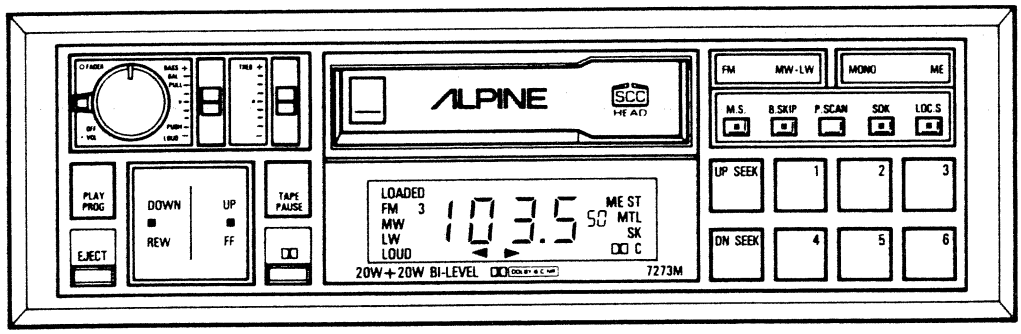
ALPINE SERVICE MANUAL

Digital FM/MW/LW Cassette
Auto Reverse



7273M

Contents

Specifications 3
Parts Locations and Disassembly Instructions . . . . . 4 to 7
Adjustment Procedures. . . . . 7 to 8
Adjustment Locations . . . . . 8 to 9
Replacement of Mechanical Parts . . . . . 10 to 13
Block Diagram 14
Tuner Schematic Diagram 15
Parts Layout on P.C. Boards . . . . . 16 to 24
Wiring Diagram . . . . . 25 to 26
Schematic Diagram (1/2) . . . . . 27 to 29
Schematic Diagram (2/2) . . . . . 30 to 32
Electrical Parts List . . . . . 33 to 44
Exploded View (Caibinet) . . . . . 45 to 46
Exploded View (Cassette Deck) . . . . . 47 to 48
Cabinet Assembly Parts List 49
Cassette Deck Assembly Parts List . . . . . 50 to 51
Packing Assembly Parts List 52
Packing Method View. 53
Semi-Conductor Lead Identifications . . . . . 54 to 61

Specifications

FM Radio

Intermediate Frequency	10.7 ±0.1 MHz
Frequency Range	87.5 to 108 MHz
Usable Sensitivity (Stereo 98 MHz)	26.2 dBf
Limiting Sensitivity (98 MHz)	21.2 ±3 dBf
Signal to Noise Ratio (Stereo)	48 dB
Image Rejection (106 MHz)	42 dB
IF Rejection (90 MHz)	60 dB
Distortion (Input 1mV, 98 MHz)	1.0%
Frequency Response	30 Hz; −3 ±3 dB 10 kHz; −12 ±3 dB
Stereo Separation (1 kHz)	28 dB
SK Sensitivity (98 MHz)	31.2 dBf

MW Radio

Intermediate Frequency	459 ±5 kHz
Frequency Range	522 to 1,611 kHz
Sensitivity (20 dB S/N, 999 kHz)	37.2 dBf
Signal to Noise Ratio (999 kHz)	40 dB
Image Rejection (1,404 kHz)	47 dB
IF Rejection (999 kHz)	40 dB
Distortion (1 kHz)	2.5%
Frequency Response	30 Hz; −5 ±3 dB 3 kHz; −15 ±5 dB

LW Radio

Intermediate Frequency	459 ±5 kHz
Frequency Range	155 to 281 kHz
Sensitivity (20 dB S/N, 218 kHz)	42.2 dBf
Signal to Noise Ratio (218 kHz)	40 dB
Image Rejection (272 kHz)	40 dB
IF Rejection (210 kHz)	50 dB
Distortion (1 kHz)	2%
Frequency Response	30 Hz; −5 ±3 dB 3 kHz; −12 ±5 dB

Tape Player

Wow & Flutter (JIS WRMS, MTT-111)	0.3%
Tape Speed (MTT-111)	4.75 cm/sec. +3 to −1%
Signal to Noise (MTT-112)	46 dB
Distortion (MTT-118)	1.5%
Frequency Response (MTT-256)	60 to 16,000 Hz
Separation (MTT-141)	30 dB
Crosstalk (MTT-121)	40 dB
FF & RWD Time (C-60)	100 sec

General

Load Impedance	4 ohms
Power Supply	14.0V DC (11 ∿ 16V)
Output Power (10% THD)	14 W/ch
Pre-Output Voltage	1,200mV ±3 dB
Semiconductors	20 IC's, 94 Transistors, 58 Diodes, 13 Zener Diodes, 2 FET's
Dimensions	Chassis: 178(W) x 50(H) x 160(D) mm Nose: 176(W) x 50(H) x 11(D) mm
Weight	1.7 kg

Parts Locations and Disassembly Instructions

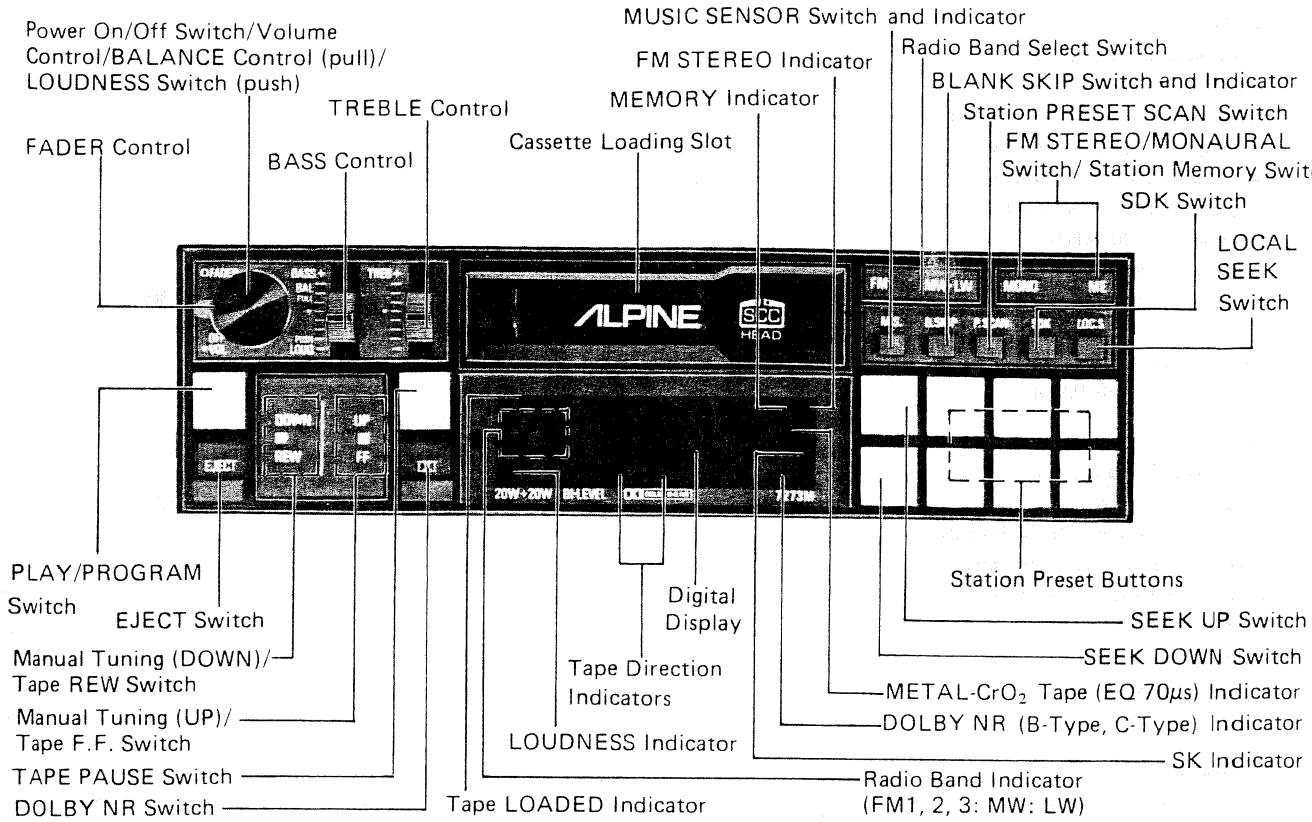


Figure 1

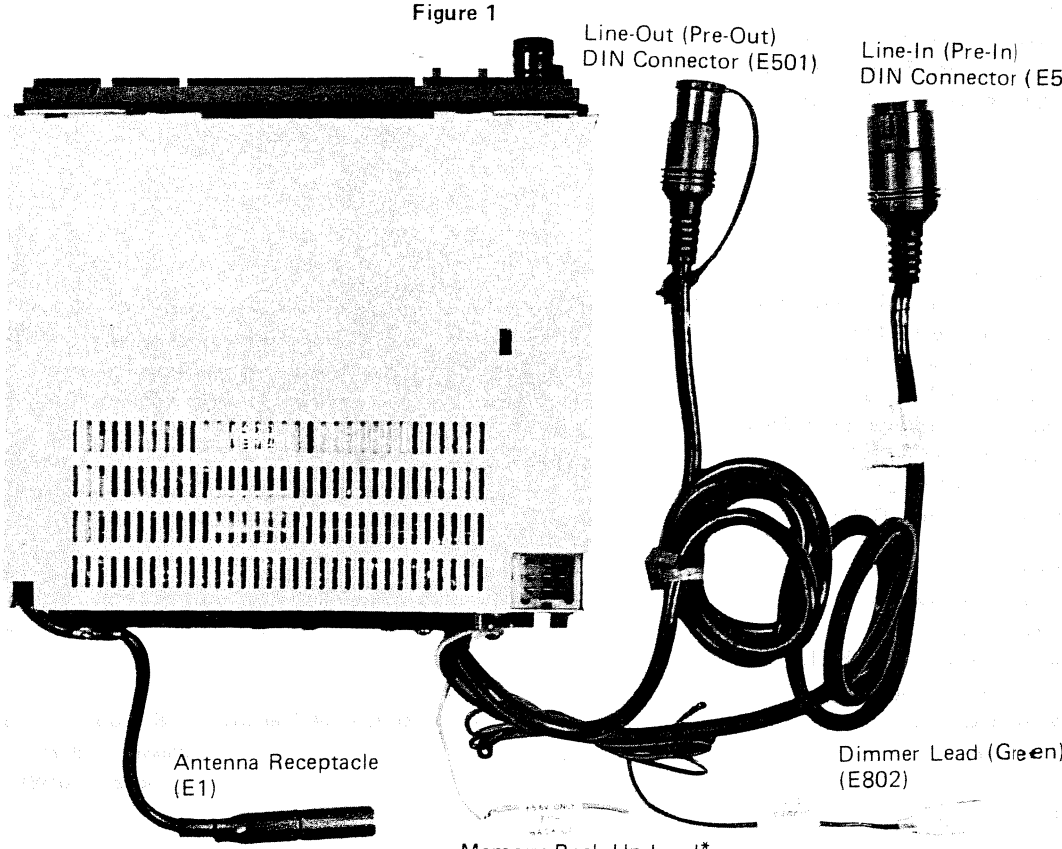

Line-Out (Pre-Out) DIN Connector (E501)
Line-In (Pre-In) DIN Connector (E502)
Antenna Receptacle (E1)
Dimmer Lead (Green) (E802)
Memory Back Up Lead* (Orange) (E801)

Figure 2

1. **Removal of Top Cover**
   (1) Remove two screws marked " ○ " as shown in Figure 3-1.

2. **Removal of Nose Piece**
   (1) Remove four knobs (Volume/Fader/Bass/Treb) as shown in Figure 4.
   (2) Remove two screws marked " △ " and two hooks as shown in Figures 3-2 and 4.

3. **Removal of Cassette Deck**
   (1) Remove four screws marked " □ " as shown in Figures 3-2 and 4.
   (2) Disconnect all wires from the cassette deck.
   (3) Cassette Deck with Reverse P.C. Board and Audio P.C. Board can be removed completely.

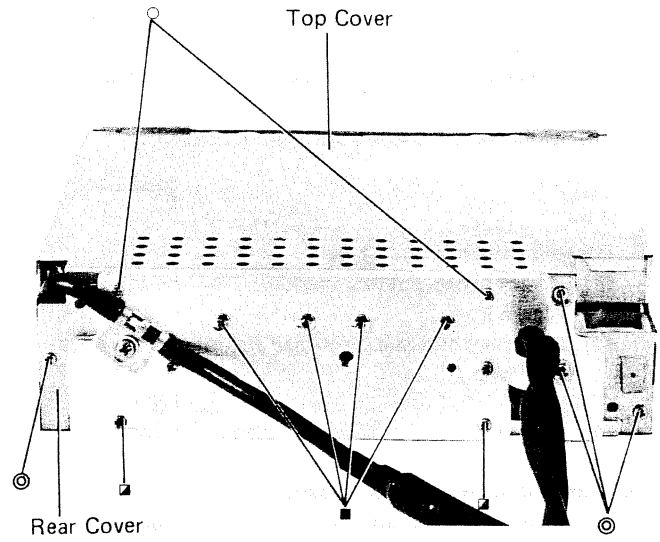


Figure 3-1

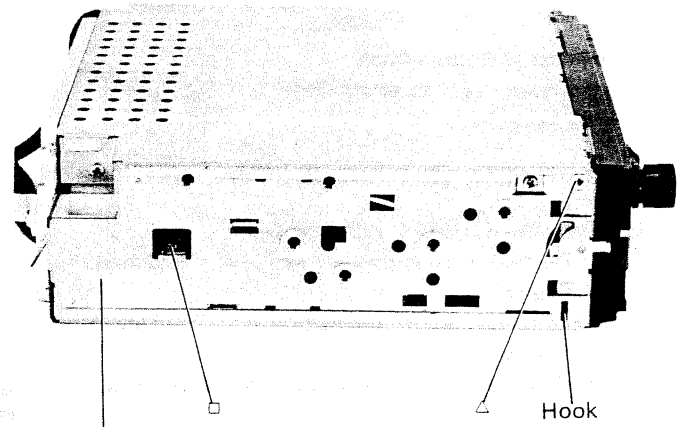


Figure 3-2

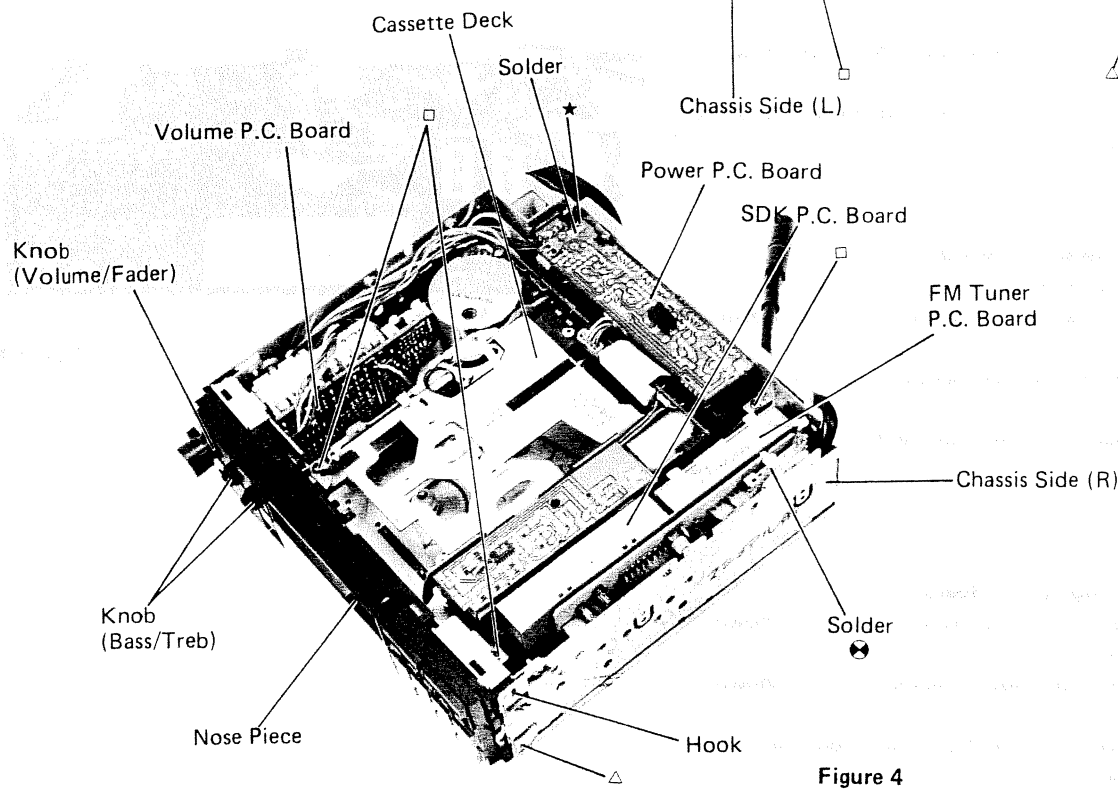


Figure 4

4. **Removal of GZ Control P.C. Board**
   (1) Remove their solders marked " * " as shown in Figure 5.
   (2) Remove one screw marked " ☆ " as shown in Figure 5.
   (3) Disconnect all wires from the P.C. Board.

5. **Removal of Audio P.C. Board**
   (1) Remove two solders marked " ◑ " as shown in Figure 5.
   (2) Disconect all wires and Head P.C. Board from the P.C. Board.

6. **Removal of Volume P.C. Board**
   (1) Remove washer and nut as shown in Figure 6.
   (2) Disconnect all wires from the P.C. Board.

7. **Removal of Bottom Cover**
   (1) Remove two screws marked " ◪ " as shown in Figure 3-1.

8. **Removal of Heat Sink and Rear Cover**
   (1) Remove four screws marked " ◎ " as shown in Figure 3-1.
   (2) Remove a solder marked " 凸 " as shown in Figure 7.
   (3) Remove the Antenna wire (WHT) as shown in Figure 7.
   (4) Heat Sink and Rear Cover with Power P.C. Board can be removed completely.

9. **Removal of Power P.C. Board**
   (1) Remove a solder as shown in Figure 4.
   (2) Remove one screw marked " ★ " as shown in Figure 4.
   (3) Remove four screws marked " ■ " as shown in Figure 3-1.
   (4) Disconnect all wires from the P.C. Board.

10. **Removal of Display P.C. Board**
   (1) Remove two screws marked " # " as shown in Figure 6.
   (2) Remove three solders marked " ▲ " as shown in Figure 7.
   (3) Disconnect all Flex P.C. Board from the display P.C. Board.

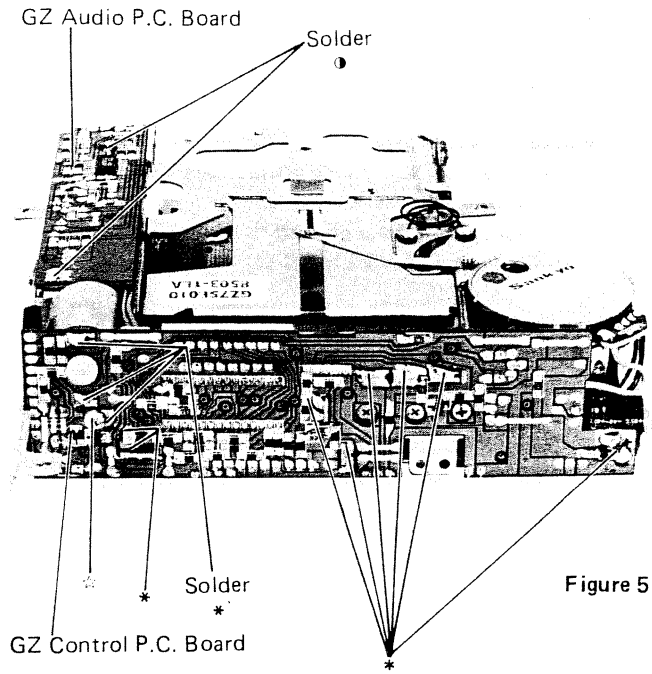


Figure 5

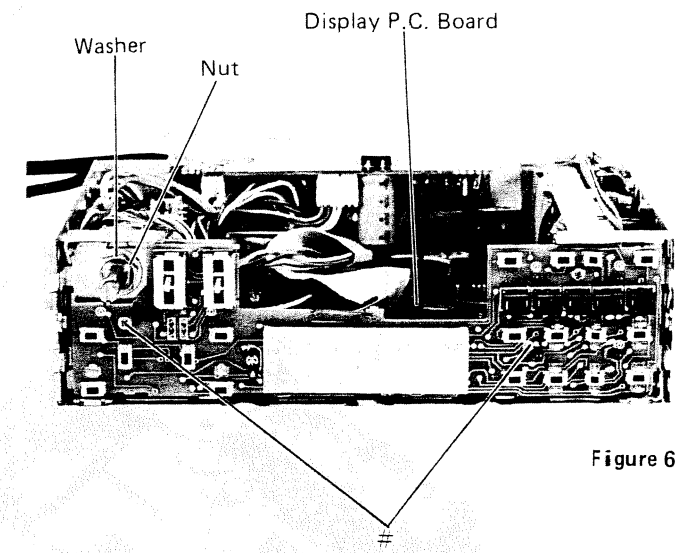


Figure 6

11. Removal of Main P.C. Board

(1) Remove four solders marked " ⧗ " as shown in Figures 4 and 7.
(2) Remove three screws marked " ※ " as shown in Figure 7.
(3) Disconnect all wires from the P.C. Board.
(4) Main P.C. Board with FM Tuner P.C. Board and SDK P.C. Board can be removed completely.

12. Removal of SDK P.C. Board

(1) Remove two solders marked " ☆ " as shown in Figure 7.
(2) Disconnect all wires from the P.C. Board.

13. Removal of FM Tuner P.C. Board

(1) Remove three solders marked " ◇ " as shown in Figure 7.
(2) Disconnect all wires from the P.C. Board.

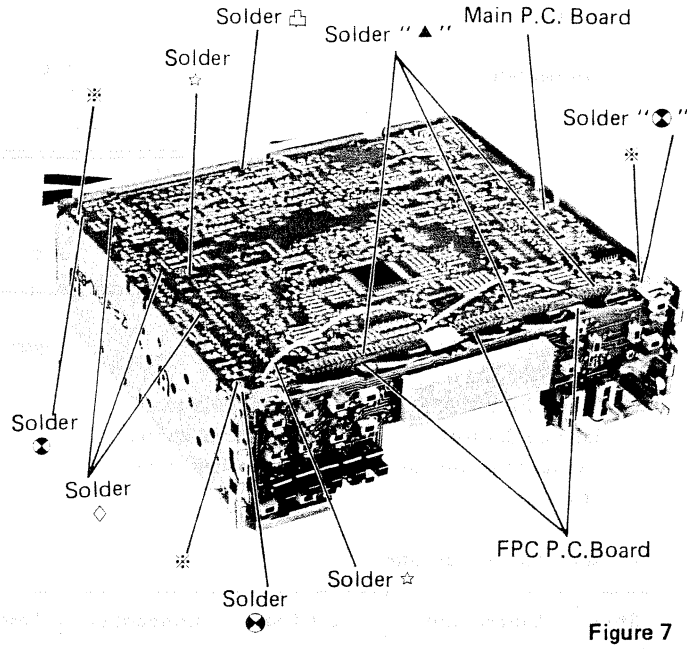
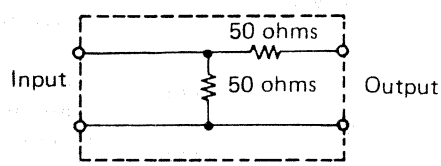


Figure 7

Adjustment Procedures

SDK

(1) Dummy Antenna



For 50 ohms FM Signal Generator

Figure 8

(2) Connections

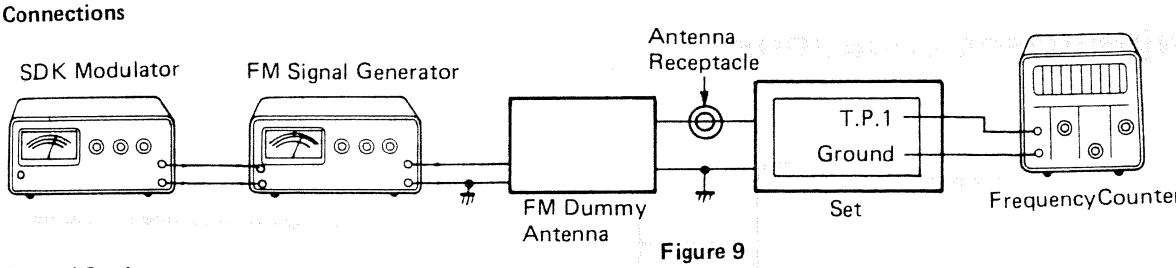


Figure 9

(3) Control Setting

Power Switch . . . . . ON
Band Select Switch . . . . . FM
SDK Switch . . . . . ON
Others . . . . . OFF

Balance Control . . . . . Mechanical center
Treble/Bass Control . . . . . Mechanical center
Fader Control . . . . . position

(4) Adjustment Procedures

DK Section

Step	Description	Connection	Signal Generator	Dial Control	Adjustment
1	DK Free-Running Frequency Adjustment	Figure 8	98 MHz 60 dBμ SK: OFF, DK: OFF	98 MHz	VR601 for 125 ± 1 Hz (T.P.1)

TAPE PLAYER

(1) **Connection**

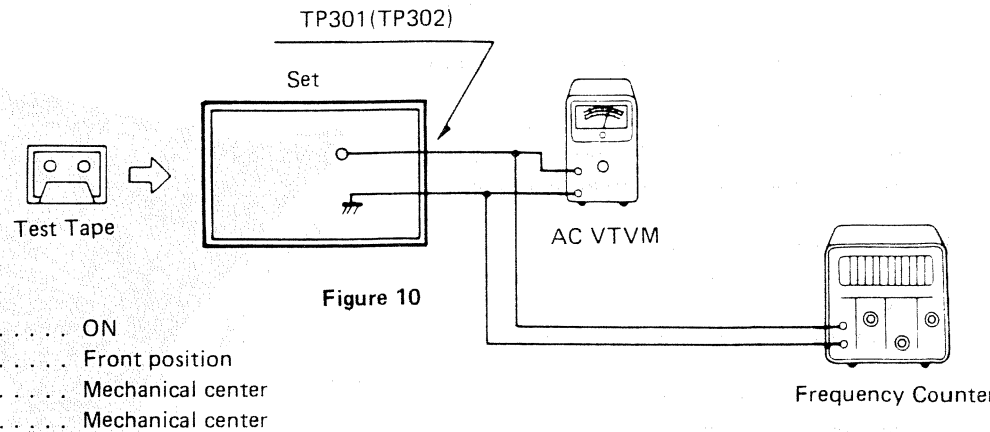


Figure 10

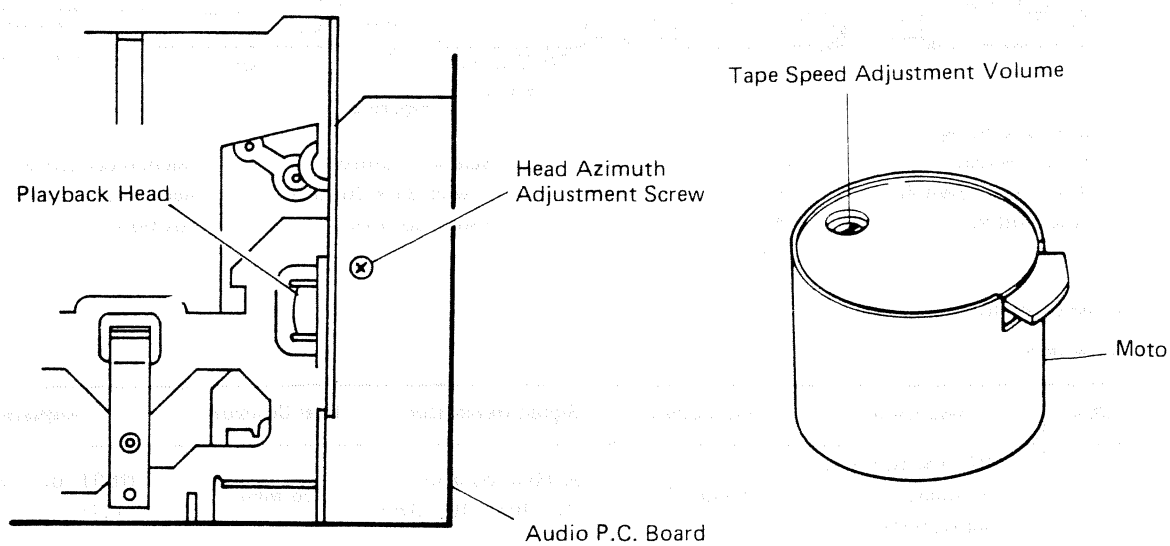
(2) **Control Setting**

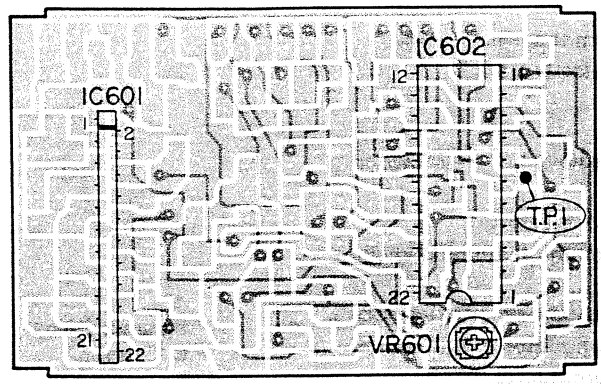
Power Sw. . . . . ON
Fader Control. . . . . Front position
Balance Control . . . . . Mechanical center
Treble/Bass Control . . . . . Mechanical center
Other Sw. . . . . OFF

(3) **Adjustment Procedure**

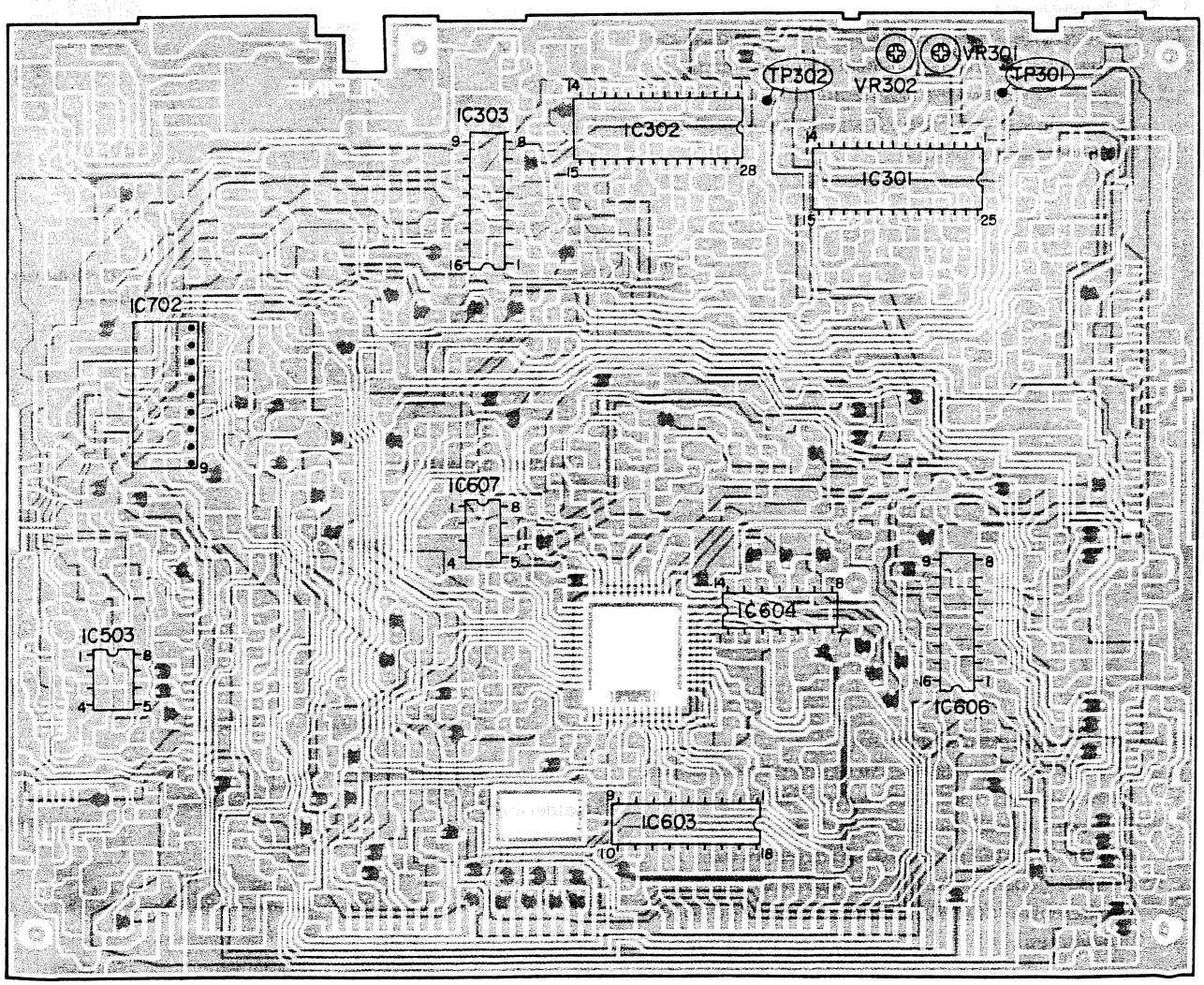
Step	Description	Test Tape	Connection	Test Point	Adjustment Point	Adjustment
1	Head Azimuth Adjustment	MTT-114NB (14 kHz)	Figure 9	TP301 TP302	Head Azimuth Adjust Screw (Figure 3)	Adjust for Max. and same level output at Normal and Reverse Positions.
2	Dolby Level Adjustment	MTT-150 (400 Hz)	Figure 9	TP301 TP302	VR301(L) VR302(R)	TP301(L), 302(R) Output for 180mV ±0.5 dB.
3	Tape Speed Adjustment	MTT-111 (3 kHz)	Figure 9	TP301 or TP302	Tape Speed Adjustment Volume (Figure 4)	TP301(TP302) for 3,000 ∿ 3,020 Hz

Adjustment Locations





SDK P.C. Board



Main P.C. Board

Replacement of Mechanical Parts

- **Cassette Deck Removal**
  (1) Remove cassette deck from the main chassis. (Refer to "Removal of Cassette Deck".)

- **Motor Replacement**
  (1) Remove two screws marked " ○ " as shown in Figure 11.
  (2) Remove belt as shown in Figure 11.
  (3) Disconnect leads from motor terminal and the motor will be removed.
  (4) Replace bad motor with good one, taking care not to give any damage on motor gear, reassembling using reverse the procedures.
  (5) After assembly, adjust tape speed with test tape (MTT-111). (Refer to "Tape Speed Adjustment Procedure".)

- **Belt Replacement**
  (1) Remove two screws marked " △ " as shown in Figure 11 and remove flywheel mounting plate.
  (2) Clean new belt with absolute alcohol. Hook the belt as shown in Figure 20 and reassemble it by the reverse procedures.

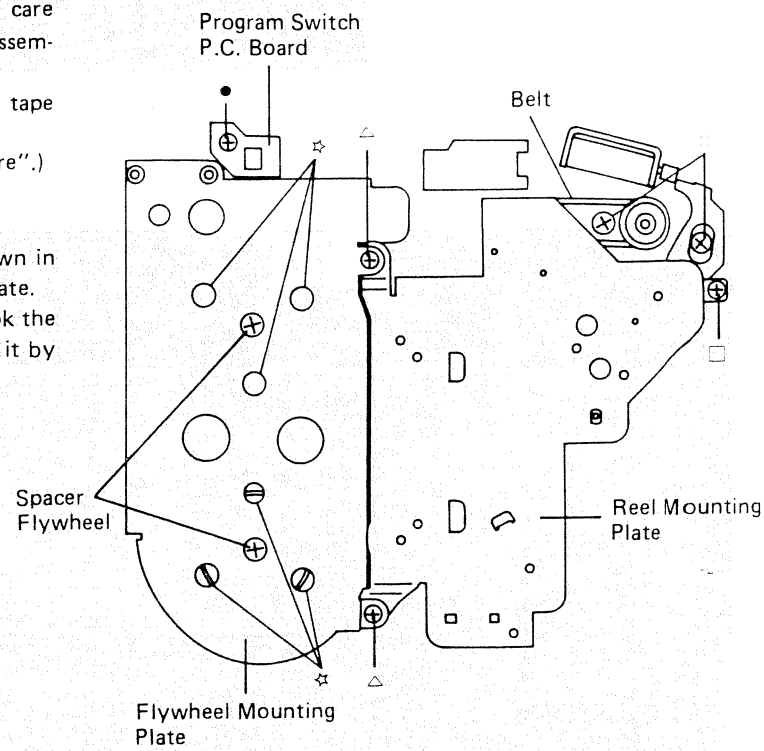


Figure 11

- **Control P.C. Board Replacement**
  (1) Unsolder nine soldering parts and remove one screw marked " ※ " as shown in Figure 12.
  (2) Remove flexible wire and lead from P.C. Board, and the Control P.C. Board will be removed.
  (3) Replace good Control P.C. Board with bad one. Reassembly the P.C. Board using the reverse procedures.

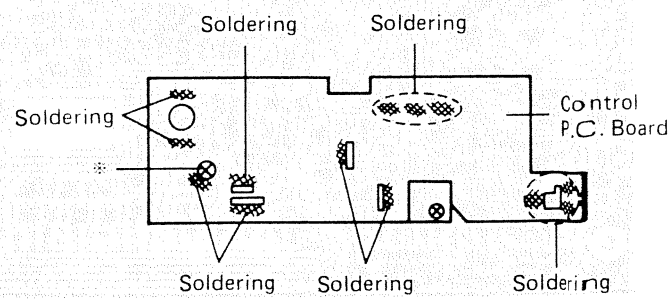


Figure 12

- **Program Switch P.C. Board Replacement**
  (1) Remove control P.C. Board. Remove one screw marked " ● " as shown in Figure 11, and the program switch P.C. Board will be removed.
  (2) Replace bad Program Switch P.C. Board with good one. Reassembly the Program Switch P.C. Board by the reverse the procedures.

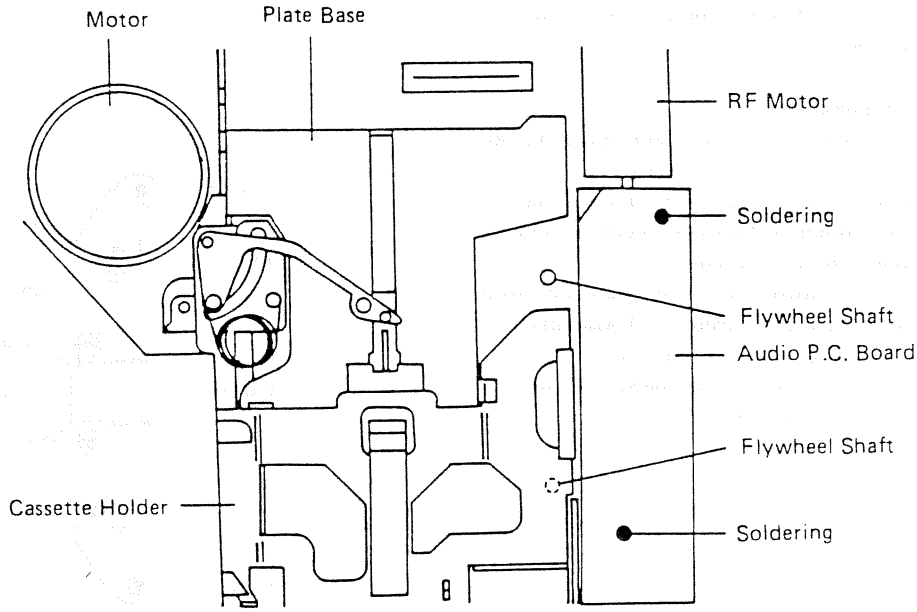


Figure 13

- **Audio P.C. Board and Head Replacement**
  (1) Unsolder two soldering parts as shown in Figure 13, and the Audio P.C. Board will be removed.
  (2) Remove head flexible P.C. Board from P.C. Board.
  (3) Remove two screws marked " ▲ " as shown in Figure 14 and the guide holder will be removed.
  (4) Remove one washer as shown in Figure 15, and the cassette holder and plate base will be removed.
  (5) Remove two screws marked " ■ " as shown in Figure 16, and the head flexible P.C. Board will be removed.
  (In this case, spacer and coil spring may be removed. Do not miss them.)
  (6) Remove head from P.C. Board.
  (7) Replace bad head with good one. Mount the head with two screws marked " ■ " as shown in Figure 16.
  (In this case, insert a spacer on the fixed securing side and a coil spring on the azimuth adjusting side.)

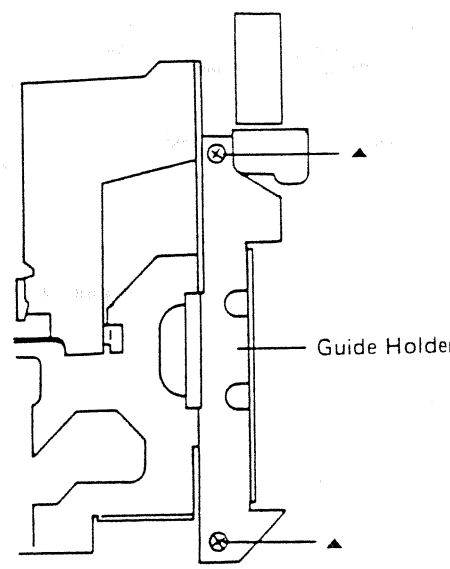


Figure 14

(8) Head height adjustment.
   1 Place height adjustment gauge (M-300 or AI-500) on the head base as shown in Figures 17 and 18, adjust height of the check bar so that it can smoothly enter into the tape head guide.
   2 When the check bar touches the top (or bottom) side of the tape guide, insert a spacer (poly slider washer of t = 0.1 ∿ 0.13mm) or remove the spacer (if already inserted).

(9) After mounting the head, reassembly it by the reverse procedures.

(10) Adjust head azimuth with test tape (MTT-114NB). (Refer to "Head Azimuth Adjustment Procedure".) After adjustment, apply screw lock to secure screw.

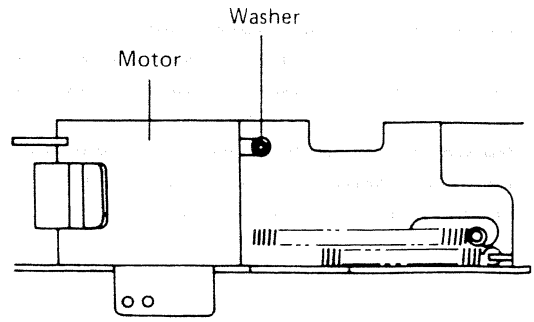


Figure 15

- **Pinch Roller Replacement**

(1) Remove control P.C. Board and guide holder, and the RF motor will be removed.

(2) Remove two E rings securing the pinch roller and pinch roller spring as shown in Figure 16, and the pinch roller will be removed.

(3) Replace good pinch roller and clean the pinch roller with absolute alchol. Reassemble the pinch roller using reverse procedure.

(4) After assembly, check tape speed and wow & flutter with test tape (MTT-111).

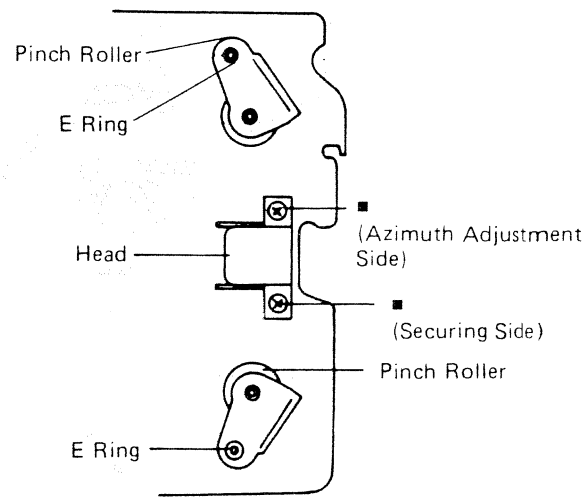


Figure 16

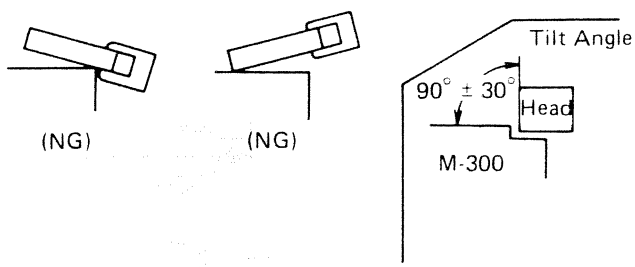


Figure 17

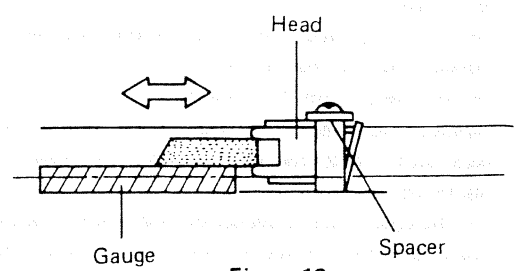
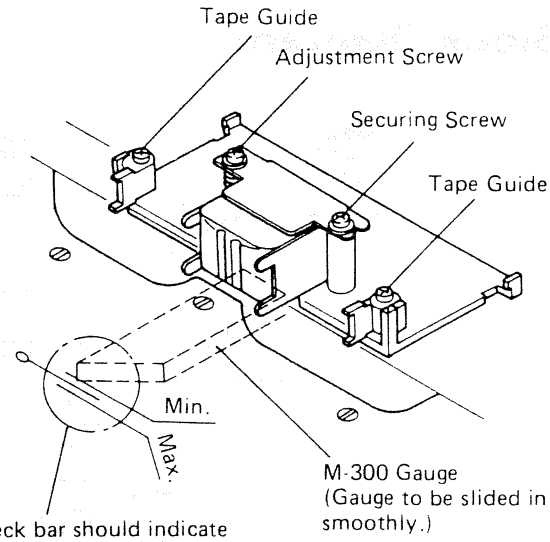


Figure 18

- **Flywheel Replacement**
  (1) Remove flywheel mounting plate and belt.
  (2) Remove flywheel by pulling it upwards.
  (In this case, a washer will be also removed on opposite side of the chassis, so take care not to lose it.)
  (3) Mount new flywheel. (Insert a flywheel washer and apply a drop of "Mobile 1" oil.)
  (4) Mount belt and flywheel mounting plate. And check flywheel's thrust clearance, by pushing flywheel shaft at its end from the direction as shown in Figure 13 and also by pushing flywheel through the hole marked " ☆ " on flywheel mounting plate as shown in Figure 11.
  To the minimum clearance and secure the spacer flywheel with screw lock.
  adhesive.
  (5) Finally mount oil seal washer on the shaft.
  (6) After assemblying, check tape speed and wow & flutter with the tape (MTT-111).



Tip of check bar should indicate specified lines (Min. ∿ Max.) on the gauge.

Figure 19

- **Reverse P.C. Board and Reel Replacement**
  (1) Remove two flywheels.
  (2) Remove one screw marked " □ " as shown in Figure 11 and remove flexible wire from P.C. Board.
  (3) Remove two lock washers as shown in Figure 21, and two reels will be removed.
  (4) After removing reels, unsolder two soldering parts and remove two screws marked " X " and one lock washer as shown in Figure 21. Remove RF solenoid lead by unsoldering it.
  (5) After replacement of good reel or Reverse P.C. Board, reassembly it using reverse procedures.
  (6) After assemblying, check tape speed and wow & flutter with test tape (MTT-111).

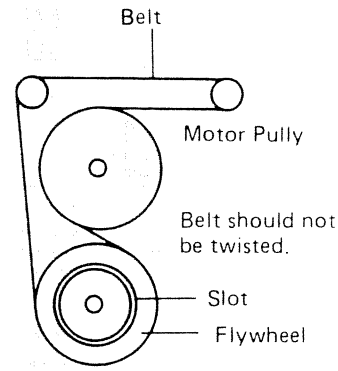


Figure 20

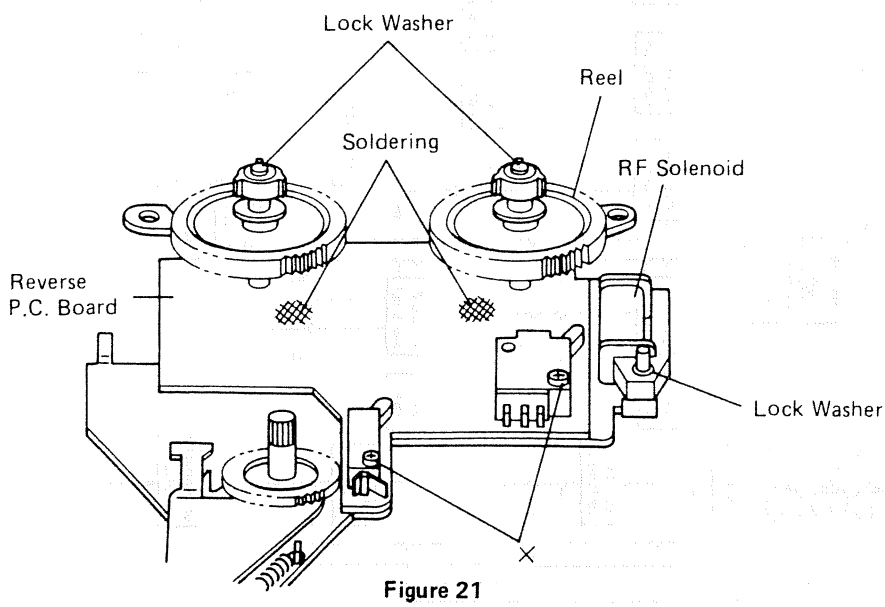
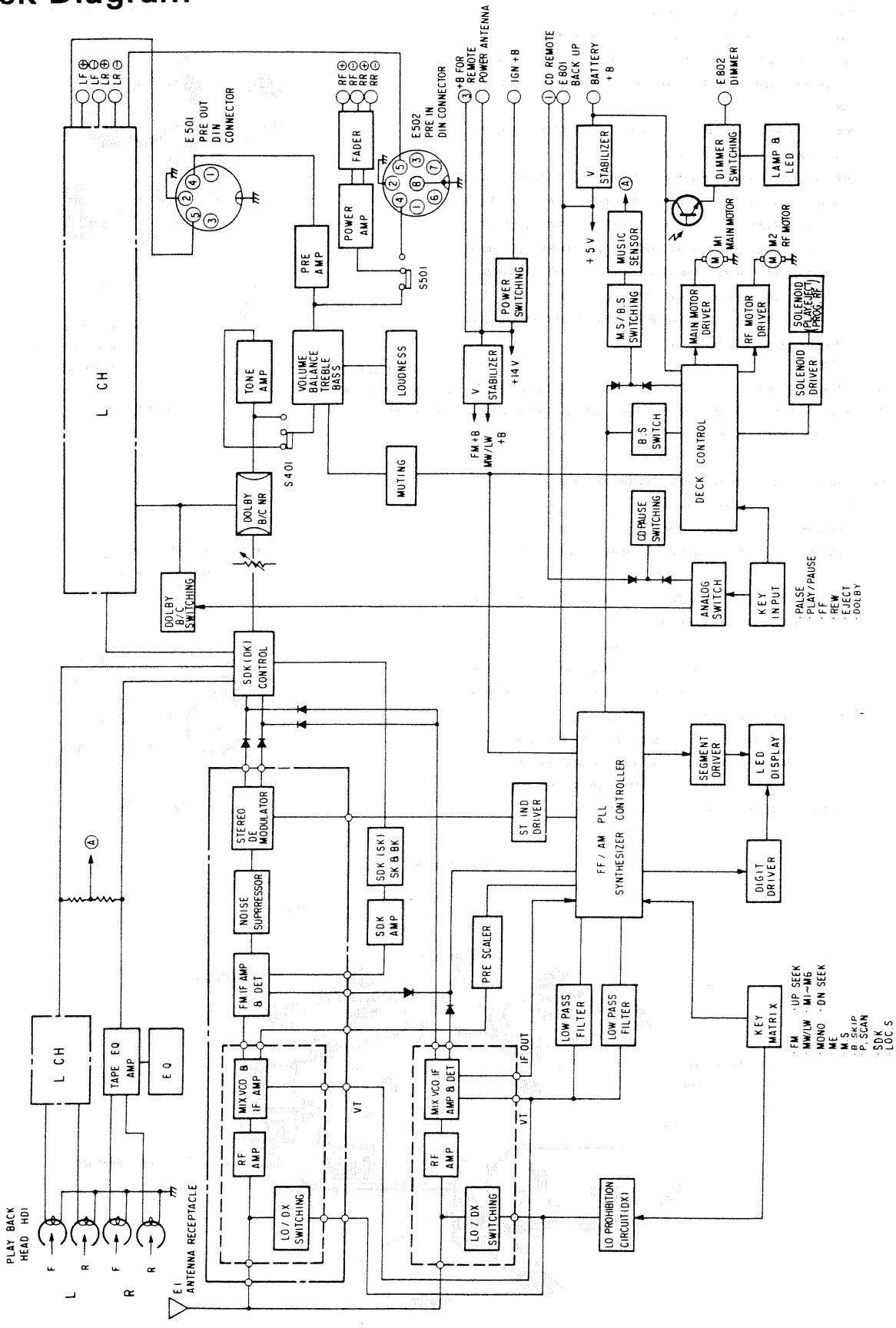


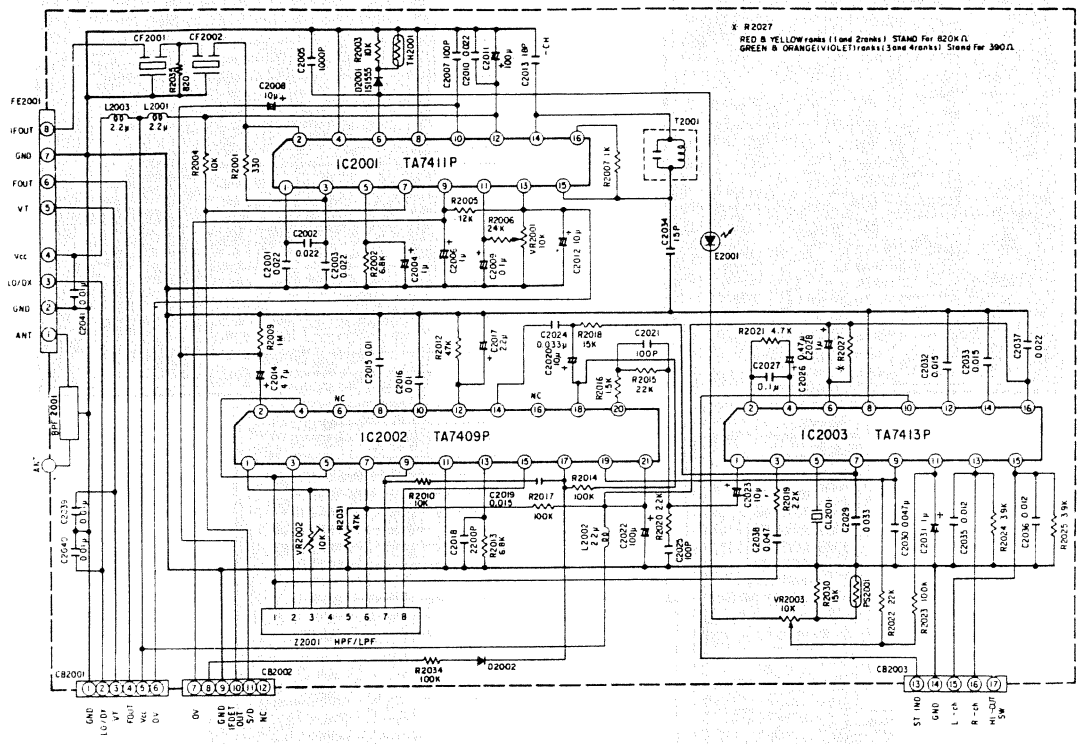
Figure 21

Block Diagram

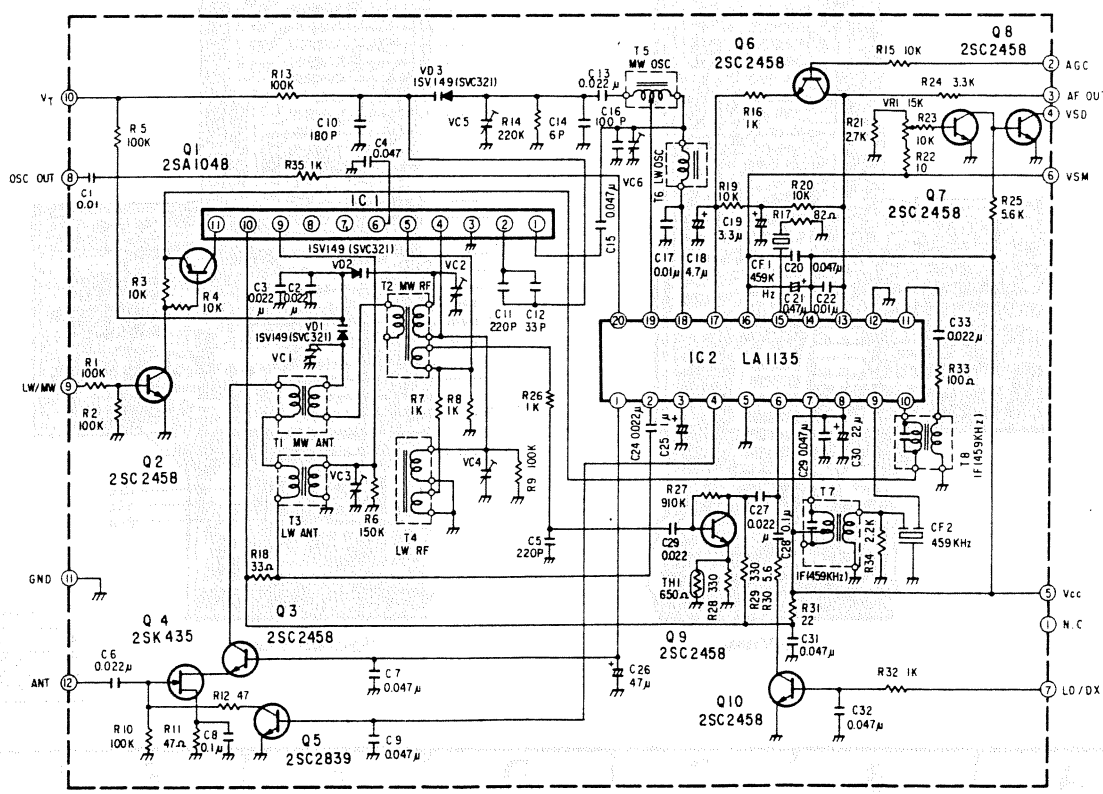


Tuner Schematic Diagram

FM Tuner

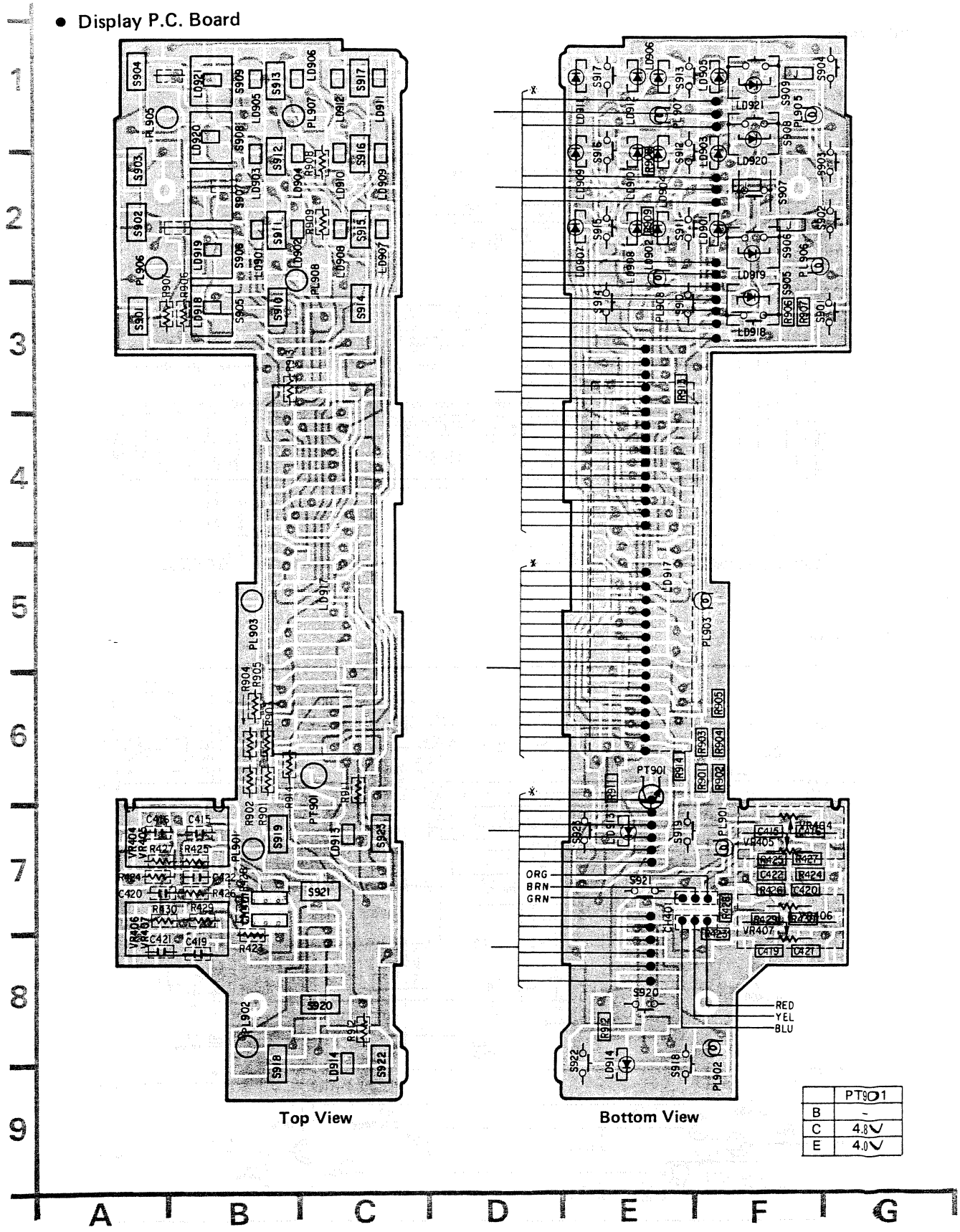


S/D Tuner

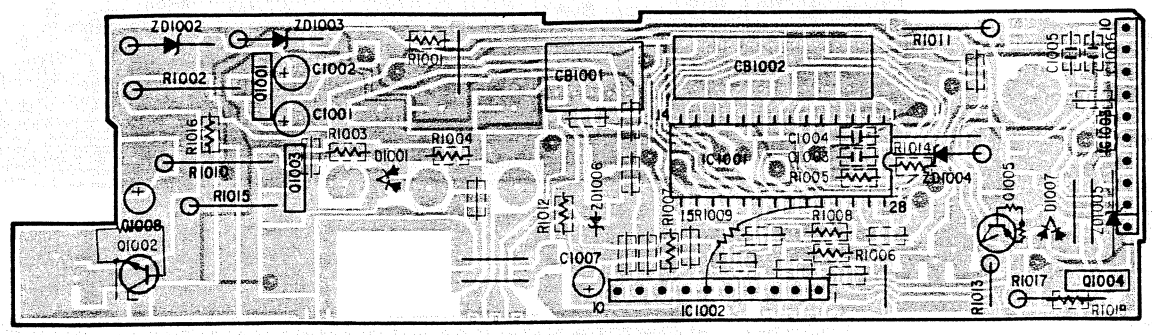


Parts Layout on P.C. Boards

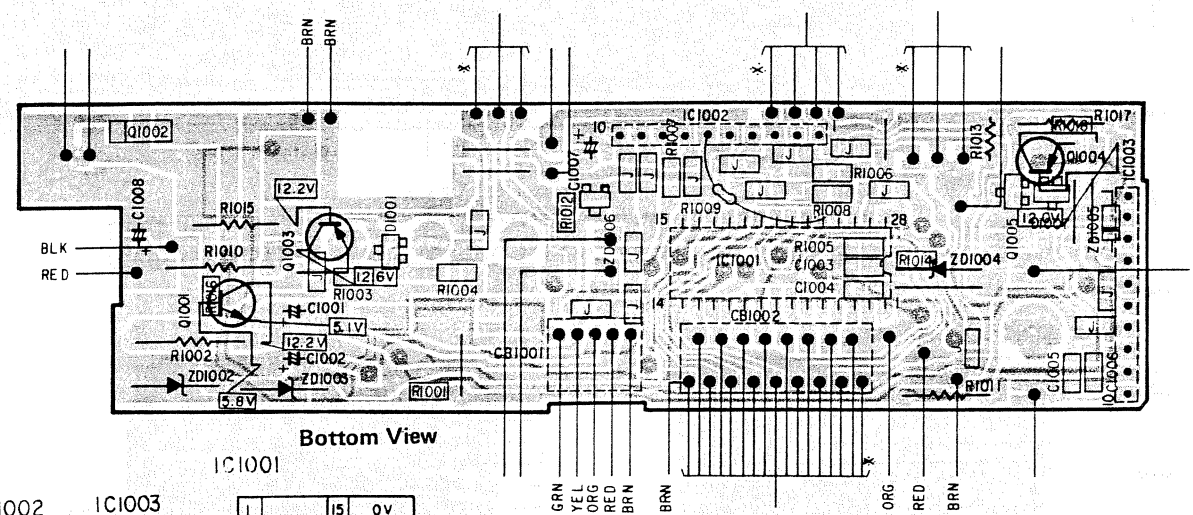
- Display P.C. Board



• GZ Control P.C. Board



Top View



Bottom View

IC1001

1		15	0V
2		16	4.5V
3	5.1V	17	4.5V
4	5.1V	18	0V
5	0V	19	0V
6	0V	20	0V
7	5.1V	21	0V
8	5.1V	22	0V
9	5.1V	23	4.5V
10	5.1V	24	0V
11	4.8V	25	0V
12	0V	26	0V
13		27	0V
14	5.1V	28	5.1V

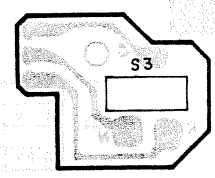
IC1002

1	—
2	0V
3	13.0V
4	0V
5	13.0V
6	0V
7	13.0V
8	0V
9	13.0V
10	0V

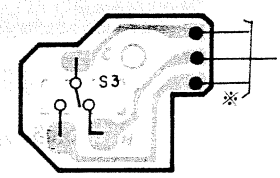
IC1003

1	0V
2	0.5V
3	0V
4	0V
5	4.5V
6	4.5V
7	12.4V
8	12.4V
9	0V
10	0.5V

• Program Switch P.C. Board

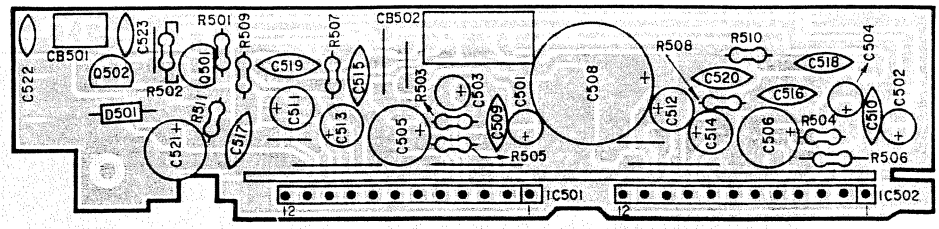


Top View

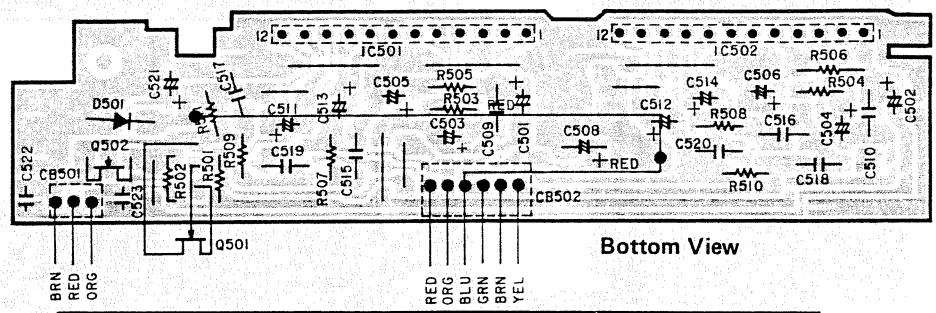


Bottom View

• Power Amp P.C. Board



Top View

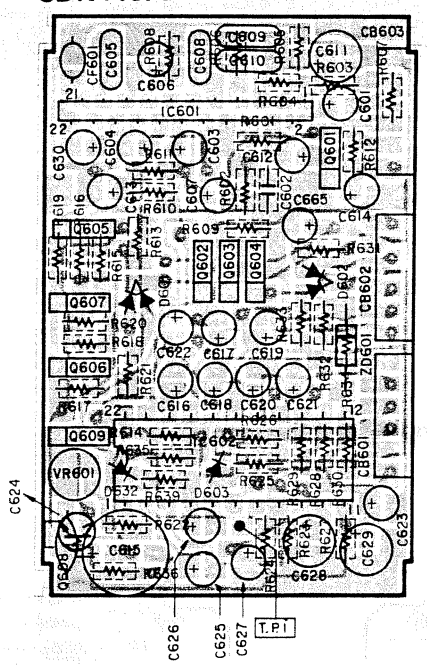


Bottom View

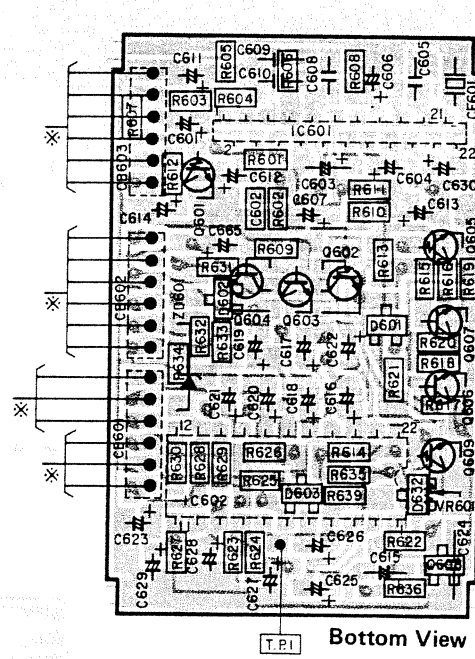
Q501 Q502	
G	0V
D	0.6V
S	2.2V

IC501 502	1	2	3	4	5	6	7	8	9	10	11	12
	3.4V	0V	0V	3.4V	3.4V	3.0V	0V	6.8V	12.5V	6.8V	13.5V	12.5V

• SDK P.C. Board



Top View



Bottom View

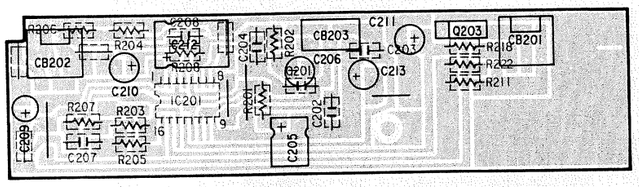
Q601	Q602	Q603	Q604
B 6.7V	9.4V/0.1V	0V/0.6V	0V/0.6V
C 0V	0V/0.6V	0V	0V
E 0V	0V	2.0V/0V	2.0V/0V

Q605	Q606	Q607	Q608	Q609
B 3.1V	0.7V	0.2V	0V	0V/8.7V
C 0V	0.2V	2.1V/0.1V	2.1V/1.7V	9.4V/0V
E 0V	0V	0V	0V	0V

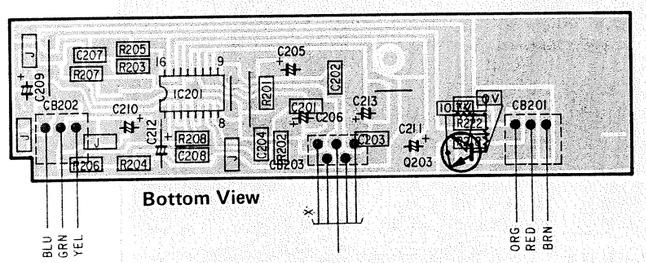
IC601	2	4	6	8	10	12	14	16	18	20	22
	2.1V	0V	1.7V	0.5V	0V	2.9V	2.9V	—	3.0V	3.0V	4.2V
	1	3	5	7	9	11	13	15	17	19	21
	8.2V	2.1V	2.1V	2.2V	3.0V	6.7V	—	0.6V	0.4V	3.0V	3.0V

IC602	1	2	3	4	5	6	7	8	9	10	11
	0.1V/2.7V	2.4V	2.5V	2.4V	2.5V	0V/4.2V	0V/0.5V	0V/1.9V	0V/1.4V	0V	0V
	22	21	20	19	18	17	16	15	14	13	12
	9.7V	2.0V	2.7V	2.7V	2.7V	2.7V	1.6V	1.6V	0.8V	0V	0.2V

● GZ Audio P.C. Board



Top View

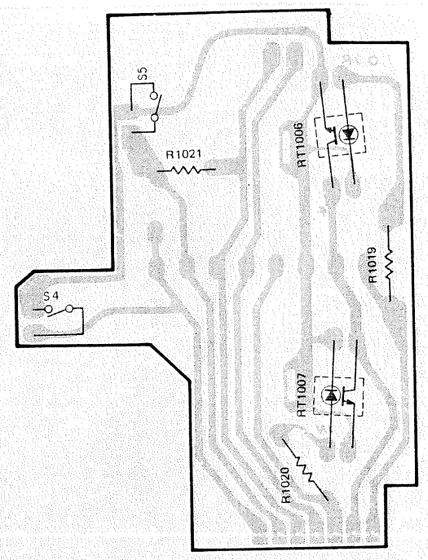


Bottom View

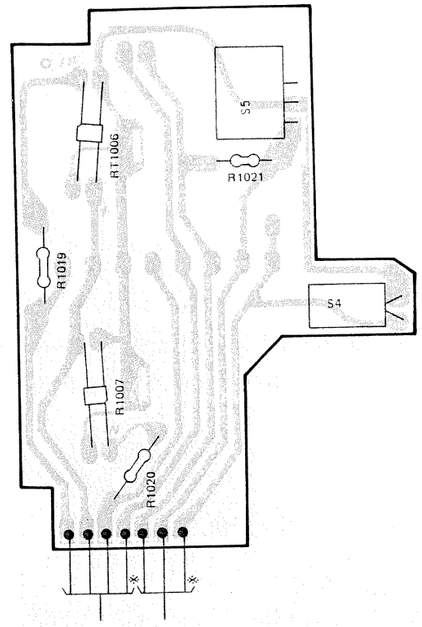
IC201

1	10.8V	9	2.8V
2	2.8V	10	—
3	10.8V	11	2.8V
4	2.8V	12	2.8V
5	2.8V	13	2.8V
6	2.8V	14	2.8V
7	2.8V	15	11.3V
8	0 V	16	2.8V

● Reverse P.C. Board

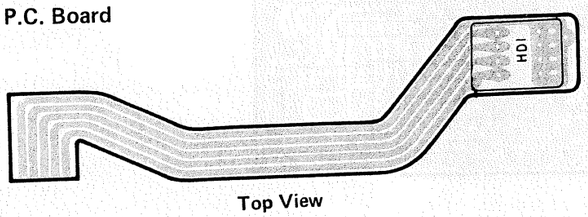


Top View

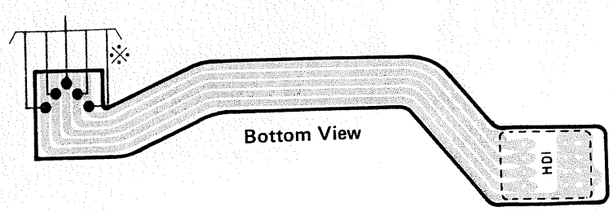


Bottom View

● Head P.C. Board

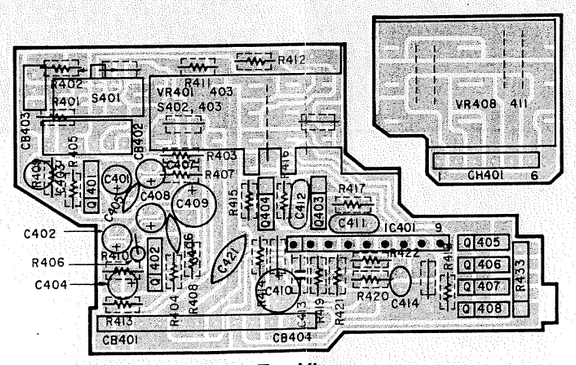


Top View

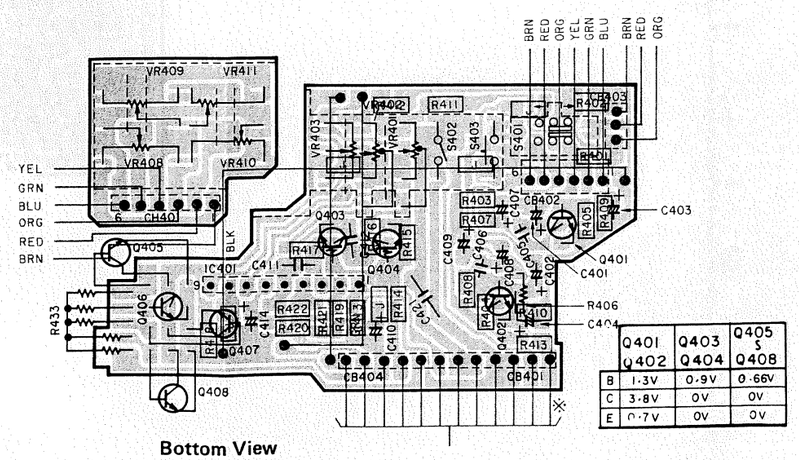


Bottom View

● Volume P.C. Board (A), (B)



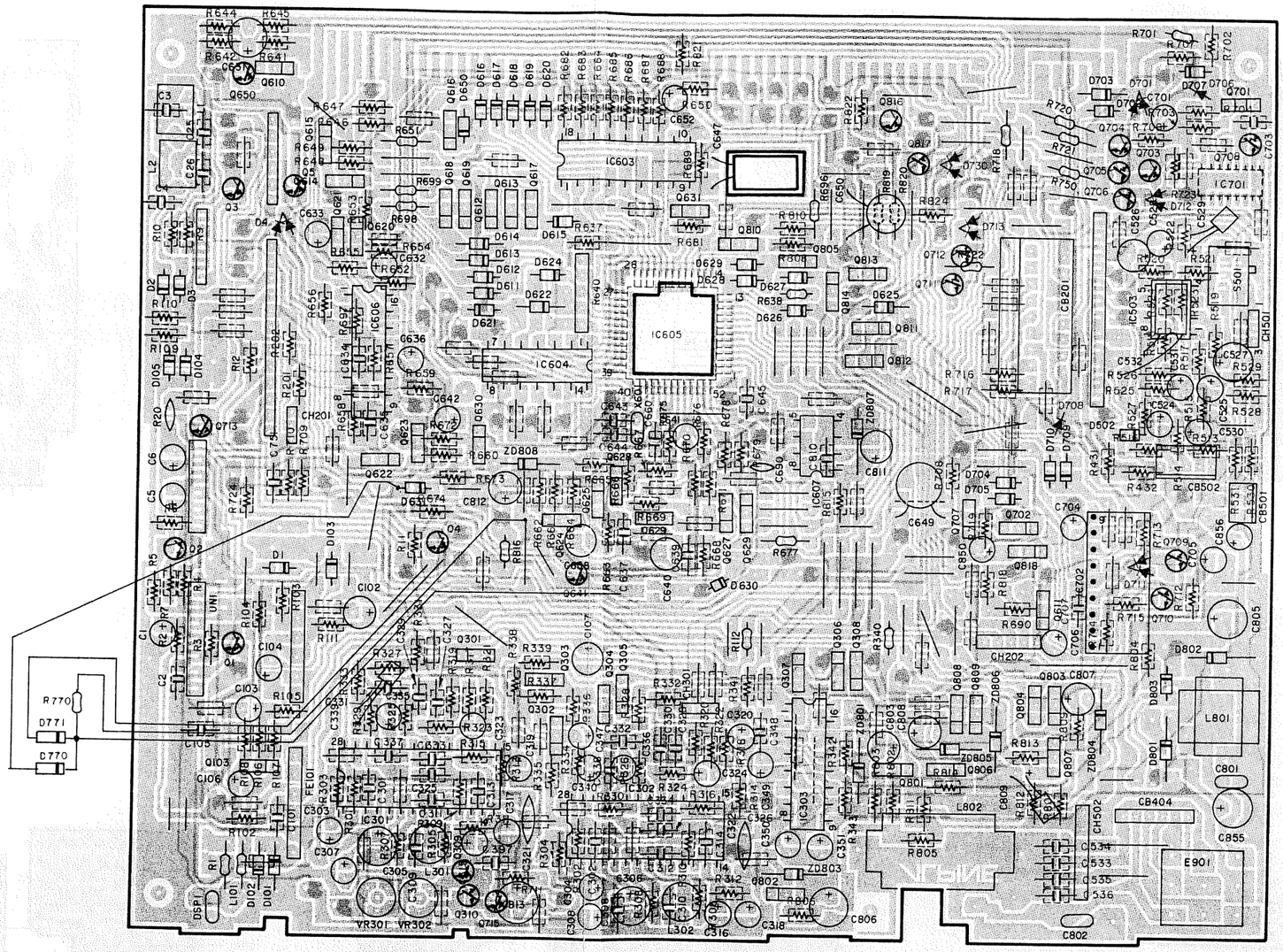
Top View



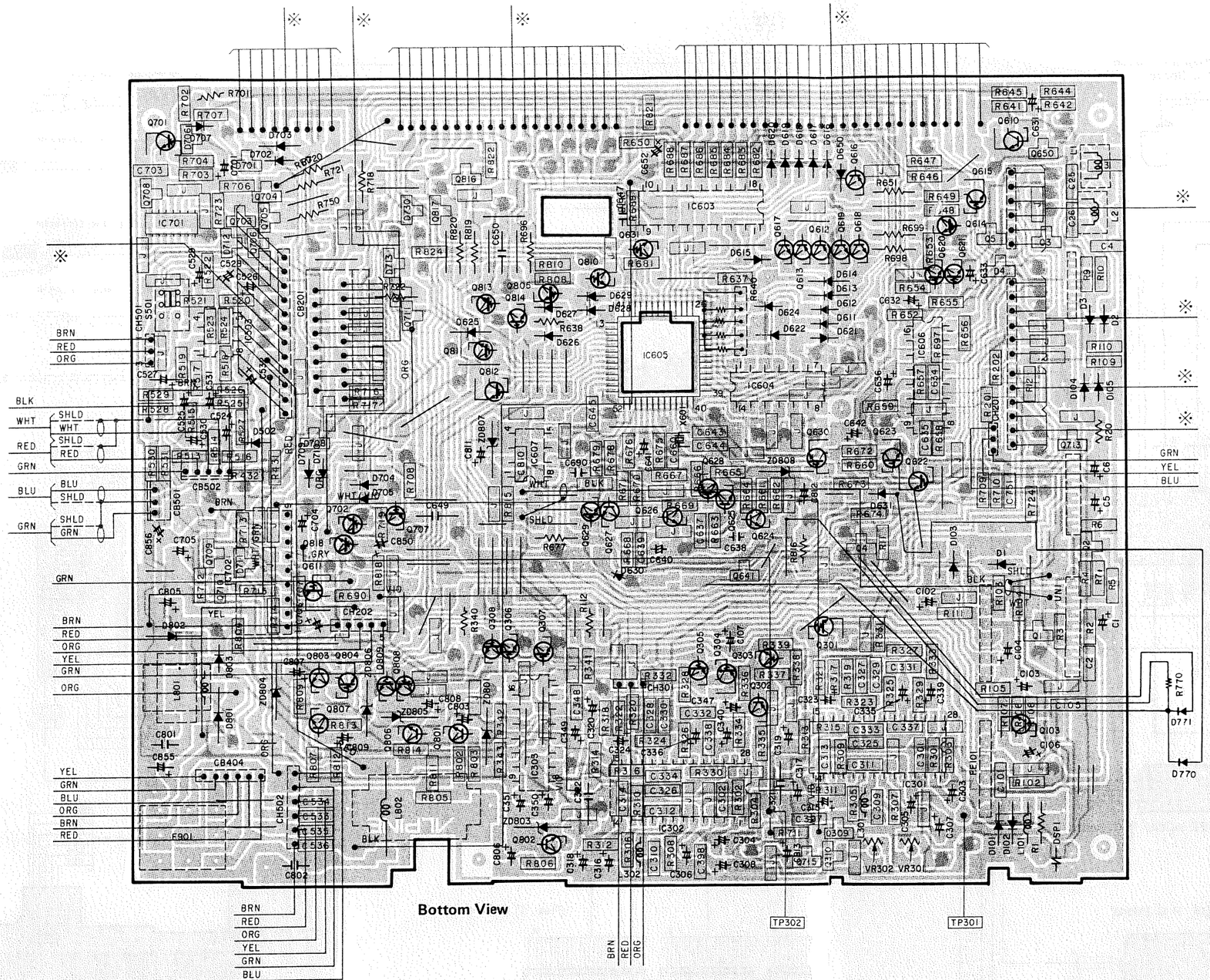
	Q401 Q402	Q403 Q404	Q405 S Q408
B	1·3V	0·9V	0·66V
C	3·8V	0V	0V
E	0·7V	0V	0V

Bottom View

- Main P.C. Board



Top View



IC603	1	2	3	4	5	6	7	8	9
	1·5V	2·3V	1·1V	1·8V	2·4V	2·6V	3·2V	0V	9·9V
	18	17	16	15	14	13	12	11	10
	4.6V	6.2V	4·2V	5·3V	5.7V	6·1V	7.4V	0V	0V

IC604	1	2	3	4	5	6	7
	0·6 V	0·6V	0.6V	0·6V	0·6V	0·6V	0V
	14	13	12	11	10	9	8
	4·3V	4.0V	4·0V	4.0V	3·9V	3.4V	4.3V

IC606	1	2	3	4	5	6	7	8
	0V	5·0V	0V	0V	5·75V	5·75V	0V	0V
	16	15	14	13	12	11	10	9
	5·75V	0V	5.5V	0V	0V	5.75V	5·75V	0V

IC607	1	2	3	4	5	6	7	8
	5.2V	4.5V	0V	0V	3.8V	0.5V	0V	0V

IC605

1	2	3	4	5	6	7	8	9	10	11	12	13
0·6V	4·7V	2·0V	2·5V	5·0V	5.0V	5·0V	1·2V	0V	0V	0.2V	4.9V	0V
14	15	16	17	18	19	20	21	22	23	24	25	26
0V	2·4V	0·3V	0·2V	5·0V	0V	0V	0V	0V	0V	4.5V	0V	0V
27	28	29	30	31	32	33	34	35	36	37	38	39
0V	0V	4.2V	0V	0V	0V	5.0V	3·2V	2·6V	2·4V	1·7V	1·1V	0·3V
40	41	42	43	44	45	46	47	48	49	50	51	52
2·4V	1·5V	0·5V	0.6V	0.5V	0·5V	0 V	0.4V	0·6V	0.6V	0.6V	0.6V	0.6V

	Q1	Q2	Q3	Q4	Q5	Q103	Q301	Q302	Q303	Q304	Q305
B	0V	1.8V	0V	12·9V	4.5V	0V	12.9V	0V	0V	8.6V	0V
C	8.3V	5·8V	12.1V	0V	0V	0V	0V	0V	9·2V	0V	8.6V
E	0V	1·2V	0V	0V	0V	0V	0V	0V	0V	9·2V	0V

	Q610	Q611	Q612 Q613	Q614 Q615
B	0V	2·2V	6.2V	8.7V
C	13·4V	0V	-0.2V	6·25V
E	0V	0V	2·6V	6·25V

	Q808 Q809	Q810	Q811 Q812	Q813	Q814	Q816	Q817	Q818
B	0V	4.2V	0V	8.4V	0V	0V	0V	3.7V
C	9.7V	0V	13.6V	0V	8.4V	13.6V	0V	0V
E	0V	0V	0V	9.0V	0V	0V	0V	0V

	Q706 ~ Q712	Q713	Q715	Q801	Q802
B	0V	12.9V	0V	6.4V	9.9V
C	0V	0V	0V	9.5V	13.0V
E	0V	0V	0V	5.7V	9.2V

	Q803	Q804	Q805	Q806	Q807
B	0V	7.2V	0V	9.7V	9.7V
C	13.5V	0V	7.2V	13.3V	12.7V
E	0V	0V	0V	9.0V	9.1V

	Q616	Q617	Q618 Q619	Q620	Q621	Q622	Q623	Q624	Q625	Q626
B	13.5V	-0.2V	0V	5.5V	0V	0V	5.0V	0.6V	1.2V	0V
C	-0.2V	2.9V	2.9V	0V	5.7V	0V	0V	1.3V	9.8V	1.3V
E	1.4V	0V	0V	0V	0V	0V	0V	0V	0.6V	0V

	Q627	Q628	Q629	Q630	Q631	Q641	Q650	Q702	Q703	Q704 Q705
B	0V	0V	3.7V	4.7V	12.9V	12.3V	2.2V	12.9V	0V	2.2V
C	9.8V	1.2V	0V	0V	0V	0V	0V	0V	2.2V	0V
E	0V	0V	0V	0V	0V	0.9V	0V	0V	0V	0V

IC301 302	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	4.7 V	4.7V	4.7V	4.7V	9.2V	4.4V	0V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.4V
	28	27	26	25	24	23	22	21	20	19	18	17	16	15
	4.7V	0V	0V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.6V	4.6V

	Q306 Q307	Q308	Q309 Q310
B	0V	12·9V	0V
C	0V	0V	0V
E	0V	0V	0V

IC701	1	2	3	4	5	6	7	8
	0 V	5.5V	0V	0V	0V	5.7V	0V	0V
	16	15	14	13	12	11	10	9
	5.7V	0V	5.7V	0V	0V	0V	0V	0V

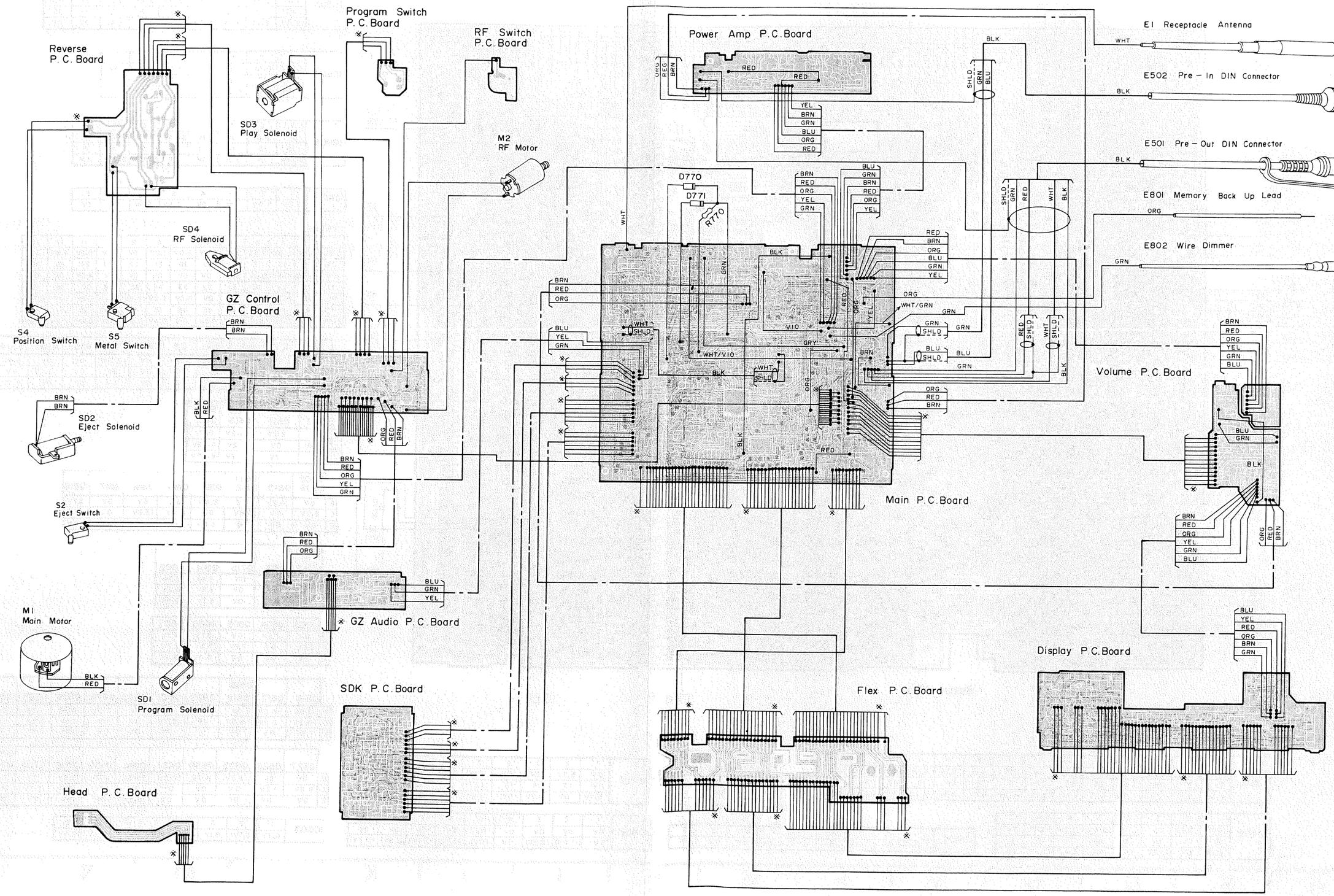
IC303	1	2	3	4	5	6	7	8
	0V	5.7V	0V	0V	5.7 V	5.7V	0 V	0V
	18	15	14	13	12	11	10	9
	5.7V	0V	5.7V	0V	0V	5.7V	0V	0V

IC401	1	2	3	4	5	6	7	8	9
	1.4V	3.3V	3.3V	1.3V	0V	2.6V	0V	0V	0V

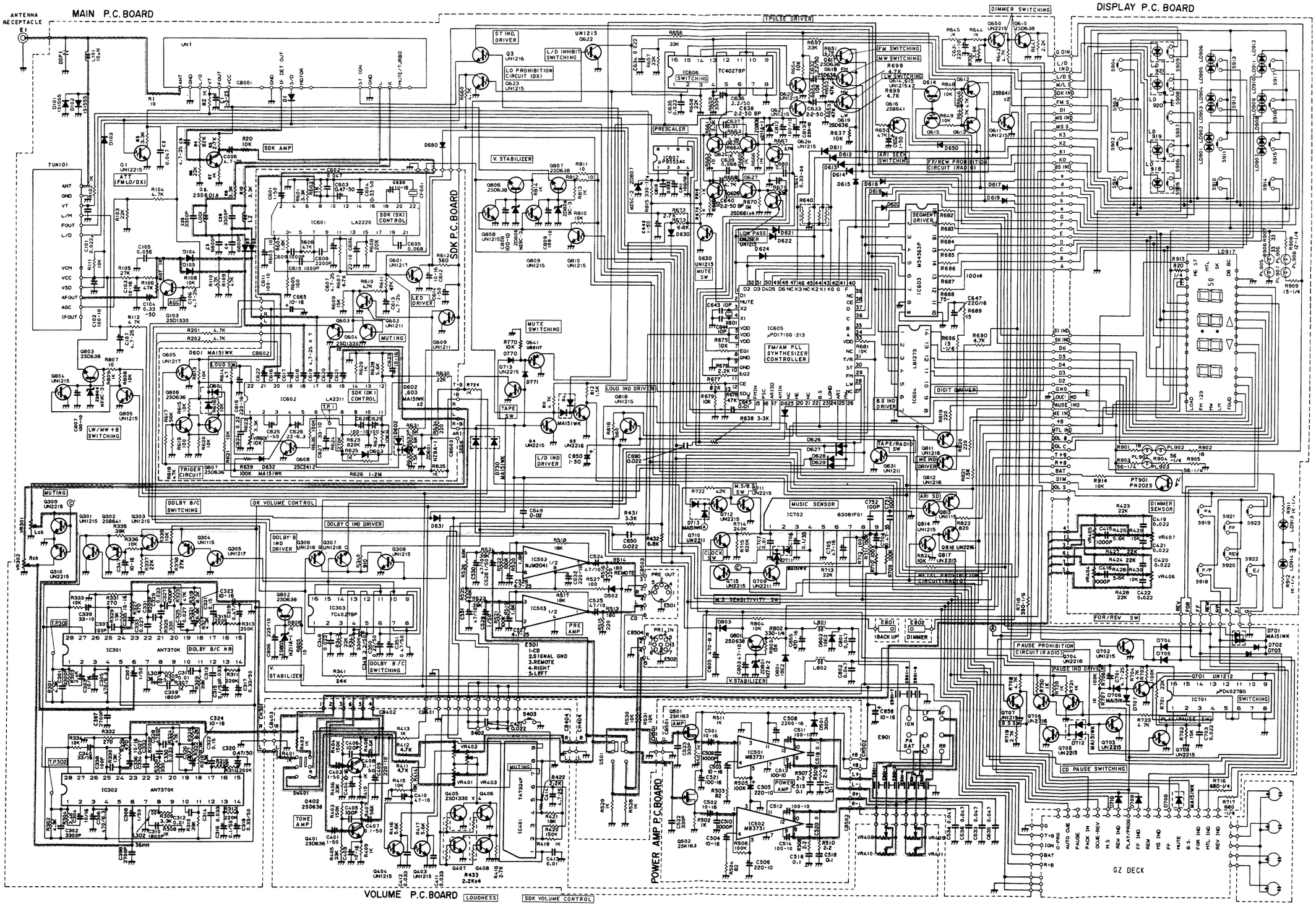
IC702	1	2	3	4	5	6	7	8	9
	0V	0V	0V	0V	0V	0V	0V	0V	0V
	(0V)	(11.9V)	(2.2V)	(0V)	(0V)	(5.1V)	(5.1V)	(11.9V)	(0.7V)

IC503	1	2	3	4	5	6	7	8
	6.1V	6.1V	6.1V	0V	6.1V	6.1V	6.1V	12.5V

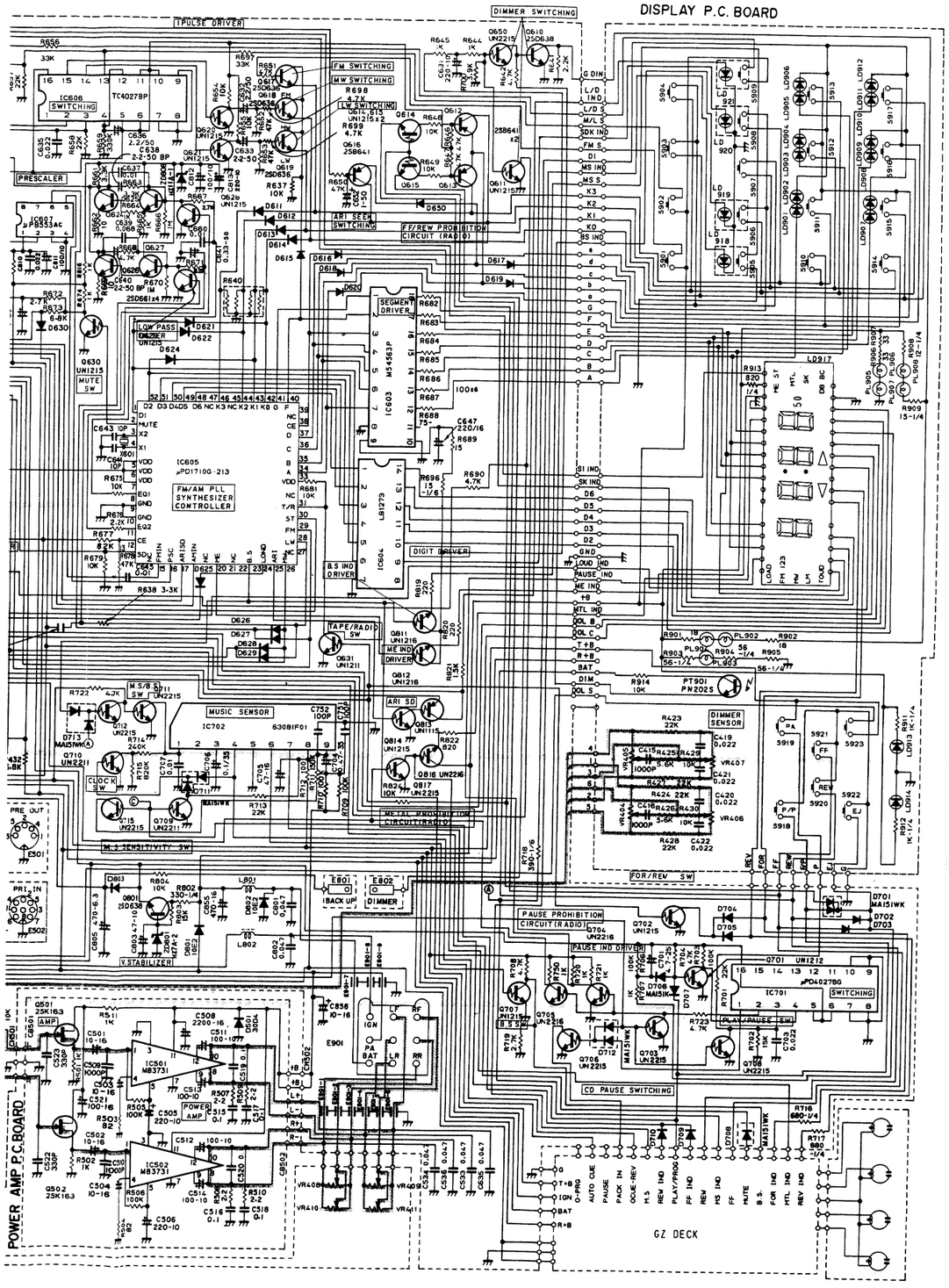
Wiring Diagram



Schematic Diagram (1/2)


MAIN P.C.BOARD
DISPLAY P.C.BOARD
SDK P.C.BOARD
VOLUME P.C.BOARD
POWER AMP P.C.BOARD
GZ DECK
ANTENNA RECEPTACLE
TUNER
IC601 LA2220
IC602 LA2211
IC603 M54563P
IC605 μPD7108G-213
IC606 TC40278P
IC701 μPD402780
IC702 MUSIC SENSOR 63081F01
IC301 AN7370K
IC302 AN7370K
IC303 TC40278P
IC501 M53731
IC502 M53731
IC503 NJM2043
SDK VOLUME CONTROL
SDK AMP
SDK (SK) CONTROL
SDK (DK) CONTROL
DOLBY B/C SWITCHING
DOLBY B/C NR
DK VOLUME CONTROL
MUTING
MUTE SWITCHING
LED DRIVER
LOUD IND DRIVER
TPULSE DRIVER
ST IND. DRIVER
L/D INHIBIT SWITCHING
LO PROHIBITION CIRCUIT (DX)
V. STABILIZER
PRESCALER
FM SWITCHING
MW SWITCHING
LW SWITCHING
ANT SEEK SWITCHING
DIMMER SWITCHING
FF/REW PROHIBITION CIRCUIT (RADIO)
METAL PROHIBITION CIRCUIT(RADIO)
PAUSE PROHIBITION CIRCUIT(RADIO)
SEGMENT DRIVER
DIGIT DRIVER
FM/AM PLL SYNTHESIZER CONTROLLER
B.S IND DRIVER
TAPE/RADIO SW
ME IND DRIVER
L/D IND DRIVER
TAPE SW
TONE AMP
PRE AMP
POWER AMP
PRE OUT
LOW PASS FILTER
DIMMER SENSOR
PAUSE IND DRIVER
CD PAUSE SWITCHING
PLAY/PAUSE SW
FOR/REV SW
M.S/B.S SW
M.S SENSITIVITY SW
CLOCK SW
LW/MW +B SWITCHING
TRIGER CIRCUIT
E501 1-CD 2-SIGNAL GND 3-REMOTE 4-RIGHT 5-LEFT
E801 1-B 2-GND 3-B
E802 1-BACK UP 2-DIMMER
E901 1-IGN 2-BAT 3-L 4-R
PL901 PN2025
PL902 PL903
PL904 PL905
PL906 PL907
PL908 12-1/4
R905 15-1/4
R916 380-1/6
R717 680-1/4
R716 680-1/4
R913 820
R914 10K
R915 10K
R909 33
R910 33
R911 1K-1/4
R912 1K-1/4

DISPLAY P.C. BOARD



IC601	2	4	6	8	10	12	14	16	18	20	22
	2.1V	0V	1.7V	0.3V	0V	2.9V	2.9V	—	3.0V	3.0V	4.2V
	1	3	5	7	9	11	13	15	17	19	21
	8.2V	2.1V	2.1V	2.2V	3.0V	6.7V	—	0.6V	0.4V	3.0V	3.0V

IC602	1	2	3	4	5	6	7	8	9	10	11
	0.1V/2.7V	2.4V	2.5V	2.4V	2.5V	0V/4.2V	0V/0.5V	0V/1.9V	0V/1.4V	0V	0V
	22	21	20	19	18	17	16	15	14	13	12
	9.7V	2.0V	2.7V	2.7V	2.7V	2.7V	1.6V	1.6V	0.8V	0V	0.2V

IC603	1	2	3	4	5	6	7	8	9
	1.5V	2.3V	1.1V	1.8V	2.4V	2.6V	3.2V	0V	9.9V
	18	17	16	15	14	13	12	11	10
	4.6V	6.2V	4.2V	5.3V	5.7V	6.1V	7.4V	0V	0V

IC604	1	2	3	4	5	6	7
	0.6V	0.6V	0.6V	0.6V	0.6V	0.6V	0V
	14	13	12	11	10	9	8
	4.3V	4.0V	4.0V	4.0V	3.9V	3.4V	4.3V

IC606	1	2	3	4	5	6	7	8
	0V	5.0V	0V	0V	5.75V	5.75V	0V	0V
	16	15	14	13	12	11	10	9
	5.75V	0V	5.5V	0V	0V	5.75V	5.75V	0V

IC607	1	2	3	4	5	6	7	8
	5.2V	4.5V	0V	0V	3.8V	0.5V	0V	0V

IC605

	1	2	3	4	5	6	7	8	9	10	11	12	13
	0.6V	4.7V	2.0V	2.3V	5.0V	5.0V	5.0V	1.2V	0V	0V	0.2V	4.9V	0V
	14	15	16	17	18	19	20	21	22	23	24	25	26
	0V	2.4V	0.3V	0.2V	5.0V	0V	0V	0V	0V	0V	4.5V	0V	0V
	27	28	29	30	31	32	33	34	35	36	37	38	39
	0V	0V	4.2V	0V	0V	0V	5.0V	3.2V	2.6V	2.4V	1.7V	1.1V	0.3V
	40	41	42	43	44	45	46	47	48	49	50	51	52
	2.4V	1.5V	0.5V	0.6V	0.5V	0.5V	0V	0.4V	0.6V	0.6V	0.6V	0.6V	0.6V

IC301 302	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	4.7V	4.7V	4.7V	4.7V	9.2V	4.4V	0V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.4V
	28	27	26	25	24	23	22	21	20	19	18	17	16	15
	4.7V	0V	0V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.8V	4.8V

IC303	1	2	3	4	5	6	7	8
	0V	5.7V	0V	0V	5.7V	5.7V	0V	0V
	16	15	14	13	12	11	10	9
	5.7V	0V	5.7V	0V	0V	5.7V	0V	0V

IC401	1	2	3	4	5	6	7	8	9
	1.4V	3.3V	3.3V	1.3V	0V	2.6V	0V	0V	0V

IC501 502	1	2	3	4	5	6	7	8	9	10	11	12
	3.4V	0V	0V	3.4V	3.4V	3.0V	0V	6.8V	12.5V	6.8V	13.5V	12.5V

IC503	1	2	3	4	5	6	7	8
	6.1V	6.1V	6.1V	0V	6.1V	6.1V	6.1V	12.3V

IC701	1	2	3	4	5	6	7	8
	0V	5.5V	0V	0V	0V	5.7V	0V	0V
	16	15	14	13	12	11	10	9
	5.7V	0V	5.7V	0V	0V	0V	0V	0V

IC702	1	2	3	4	5	6	7	8	9
	0V	0V	0V	0V	0V	0V	0V	0V	0V
	(0V)	(11.9V)	(2.2V)	(0V)	(0V)	(5.1V)	(5.1V)	(11.9V)	(0.7V)

	Q001	Q002	Q003	Q004	Q005	Q103	Q301	Q302	Q303	Q304	Q305
B	0V	1.8V	0V	12.9V	4.5V	0V	12.9V	0V	0V	8.6V	0V
C	8.3V	5.8V	12.1V	0V	0V	0V	0V	0V	9.2V	0V	8.6V
E	0V	1.2V	0V	0V	0V	0V	0V	0V	0V	9.2V	0V

	Q306 Q307	Q308	Q309 Q310	Q401 Q402	Q403 Q404	Q405 Q408	Q501 Q502	Q601	Q602	Q604 Q603
B	0V	12.9V	0V	1.3V	0.9V	0.66V	0V	6.7V	9.4V/0.1V	0V/0.6V
C	0V	0V	0V	3.8V	0V	0V	0.6V	0V	0V/0.6V	0V
E	0V	0V	0V	0.7V	0V	0V	12.2V	0V	0V	2.0V/0V

	Q605	Q606	Q607	Q608	Q609	Q610	Q611	Q612 Q613	Q614 Q615
B	3.1V	0.7V	0.2V	0V	0V/8.7V	0V	2.2V	6.2V	8.7V
C	0V	0.2V	2.1V/0.1V	2.1V/1.7V	9.4V/0V	13.4V	0V	-0.2V	6.25V
E	0V	0V	0V	0V	0V	0V	0V	2.6V	6.25V

	Q616	Q617	Q618 Q619	Q620	Q621	Q622	Q623	Q624	Q625	Q626
B	13.5V	-0.2V	0V	5.5V	0V	0V	5.0V	0.6V	1.2V	0V
C	-0.2V	2.9V	2.9V	0V	5.7V	0V	0V	1.3V	9.8V	1.3V
E	4.4V	0V	0V	0V	0V	0V	0V	0.6V	0V	

	Q627	Q628	Q629	Q630	Q631	Q641	Q650	Q702	Q703	Q704 Q705
B	0V	0V	3.7V	4.7V	12.9V	12.3V	2.2V	12.9V	0V	2.2V
C	9.8V	1.2V	0V	0V	0V	0V	0V	0V	2.2V	0V
E	0V	0V	0V	0V	0V	0.9V	0V	0V	0V	0V

	Q706 Q712	Q713	Q715	Q801	Q802	Q803	Q804	Q805	Q806	Q807
B	0V	12.9V	0V	6.4V	9.9V	0V	7.2V	0V	9.7V	9.7V
C	0V	0V	0V	9.5V	13.0V	13.5V	0V	7.2V	13.3V	12.7V
E	0V	0V	0V	5.7V	9.2V	0V	0V	0V	9.0V	9.1V

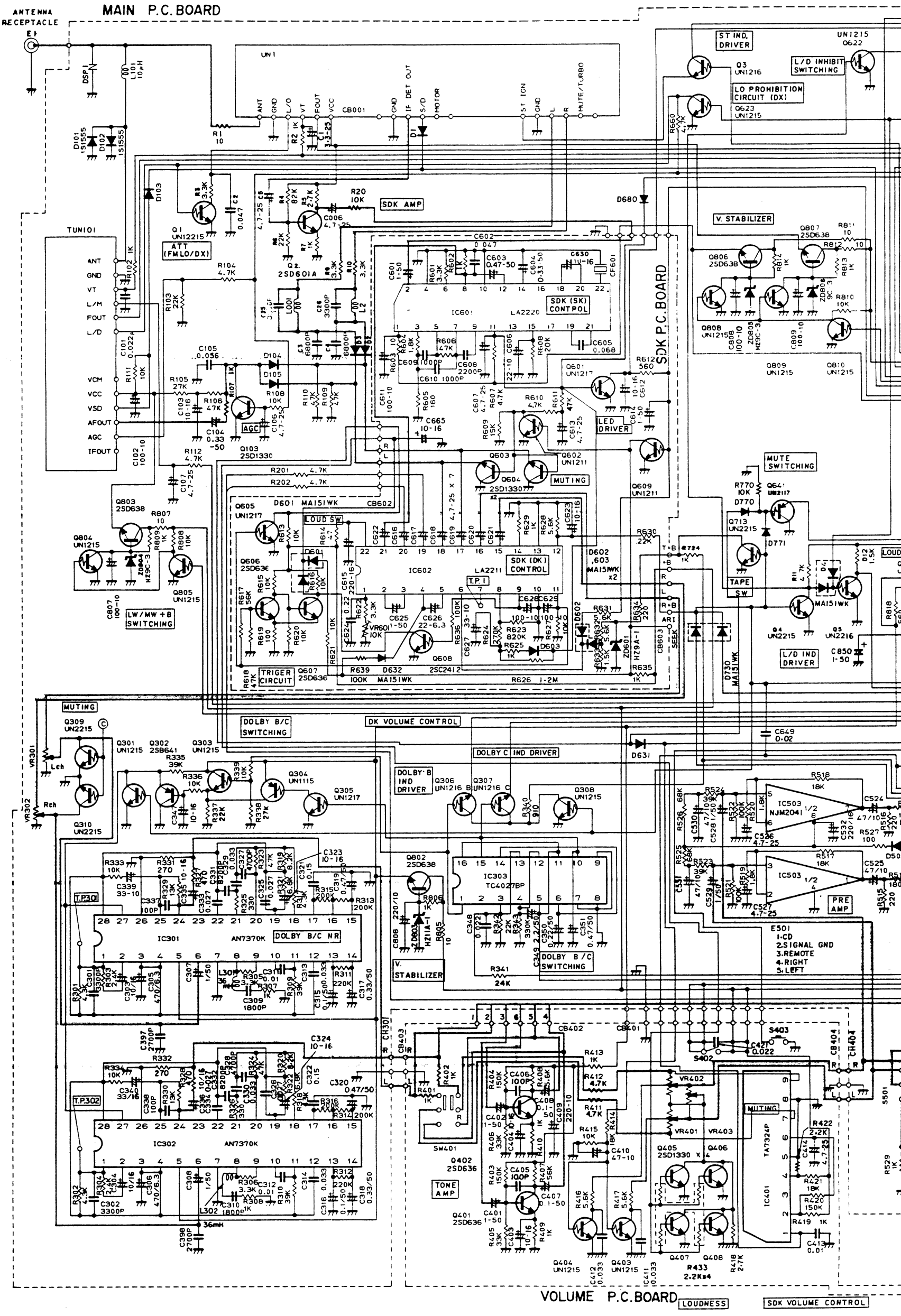
	Q808 Q809	Q810	Q811 Q812	Q813	Q814	Q816	Q817	Q818	PT901	
B	0V	4.2V	0V	8.4V	0V	0V	0V	3.7V	—	
C	9.7V	0V	13.6V	0V	8.4V	13.6V	0V	0V	4.8V	
E	0V	0V	0V	9.0V	0V	0V	0V	0V	4.0V	

NOTES:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1{,}000{,}000}$
3. Measuring condition
   - Power supply voltage: DC 14.0V
   - Measuring meter: Digital multi voltmeter
   - Measuring point reference: Between ground
   - Measuring condition: No signal input, each radio (AM/FM), Deck in play conditions.

(1/2)

IC	IC301 IC302	IC601 IC602 IC303	IC503 IC401
Transistor (Q,PT)	Q803~Q805 Q309,Q310 Q301~Q305 Q1,Q103 Q605~Q607 Q2	Q608 Q802 Q601~Q604 Q306~Q308 Q401~Q408	Q609 Q3 Q623 Q806~Q810 Q713 Q641 Q4 Q622 Q5
Diode(D,ZD,LD)	D101,D102, D103 ZD804 D104,D105 D601 D3 D2 D1 D632 ZD803	D603 D680 D602 ZD601 D631	ZD805 ZD806 D770 D771 D730 D4



IC606 IC605 IC603
IC607 IC501,IC502 IC702 IC604 IC701

Q622 Q620,621 Q617～Q619 Q650 Q610
Q5 Q818 Q624～Q630 Q710～Q712 Q631 Q611～Q616 PT901
Q501,Q502 Q801 Q715 Q709 Q811～Q814 Q816,Q817 Q701～Q708

806 ZD807 D630 ZD808 D611～D616 D618,620 D650 D617,619 LD918～LD921 LD901～LD912
D4 D502 D713 D621,622,624 D626～D629 D712 D704～D707 LD917 LD913,LD914
D803 D711 D625 ZD801,D801 D501 D802 D710 D709 D708 D701 D702,703

DISPLAY P.C. BOARD

DIMMER SWITCHING
PULSE DRIVER
FM SWITCHING
MW SWITCHING
LW SWITCHING
PRESCALER
ANT SEEK SWITCHING
FF/REW PROHIBITION CIRCUIT (RADIO)
SEGMENT DRIVER
LOW PASS FILTER
MUTE SW
IC606 SWITCHING TC40278P
IC607 μPB553AC
IC605 μPD1710G-213 FM/AM PLL SYNTHESIZER CONTROLLER
IC603 M54563P
IC604 LB1273
DIGIT DRIVER
B.S IND DRIVER
LOUD IND DRIVER
ME IND DRIVER
TAPE/RADIO SW
MUSIC SENSOR IC702 63081F01
M.S/B.S SW
CLOCK SW
METAL PROHIBITION CIRCUIT (RADIO)
M.S SENSITIVITY SW
V.STABILIZER
BACK UP
DIMMER
PAUSE PROHIBITION CIRCUIT (RADIO)
PAUSE IND DRIVER
IC701 μPD4027BG SWITCHING
B.S SW
PLAY/PAUSE SW
CD PAUSE SWITCHING
FOR/REV SW
DIMMER SENSOR
POWER AMP P.C.BOARD
IC501 MB3731
IC502 MB3731
POWER AMP
GZ DECK
CONTROL

IC601	2	4	6	8	10	12	14	16	18	20	22
	2.1V	0V	1.7V	0.5V	0V	2.9V	2.9V	—	3.0V	3.0V	4.2V
	1	3	5	7	9	11	13	15	17	19	21
	8.2V	2.1V	2.1V	2.2V	3.0V	6.7V	—	0.6V	0.4V	3.0V	3.0V

IC602	1	2	3	4	5	6	7	8	9	10	11
	0.1V/2.7V	2.4V	2.5V	2.4V	2.5V	0V/4.2V	0V/0.5V	0V/1.9V	0V/1.4V	0V	0V
	22	21	20	19	18	17	16	15	14	13	12
	9.7V	2.0V	2.7V	2.7V	2.7V	2.7V	1.6V	1.6V	0.8V	0V	0.2V

IC603	1	2	3	4	5	6	7	8	9
	1.5V	2.3V	1.1V	1.8V	2.4V	2.6V	3.2V	0V	9.9V
	18	17	16	15	14	13	12	11	—10
	4.6V	6.2V	4.2V	5.3V	5.7V	6.1V	7.4V	0V	0V

IC604	1	2	3	4	5	6	7
	0.6V	0.6V	0.6V	0.6V	0.6V	0.6V	0V
	14	13	12	11	10	9	8
	4.3V	4.0V	4.0V	4.0V	3.9V	3.4V	4.3V

IC606	1	2	3	4	5	6	7	8
	0V	5.0V	0V	0V	5.75V	5.75V	0V	0V
	16	15	14	13	12	11	10	9
	5.75V	0V	5.5V	0V	0V	5.75V	5.75V	0V

IC607	1	2	3	4	5	6	7	8
	5.2V	4.5V	0V	0V	3.8V	0.5V	0V	0V

IC605

1	2	3	4	5	6	7	8	9	10	11	12	13
0.6V	4.7V	2.0V	2.5V	5.0V	5.0V	5.0V	1.2V	0V	0V	0.2V	4.9V	0V
14	15	16	17	18	19	20	21	22	23	24	25	26
0V	2.4V	0.3V	0.2V	5.0V	0V	0V	0V	0V	0V	4.5V	0V	0V
27	28	29	30	31	32	33	34	35	36	37	38	39
0V	0V	4.2V	0V	0V	0V	5.0V	3.2V	2.6V	2.4V	1.7V	1.1V	0.3V
40	41	42	43	44	45	46	47	48	49	50	51	52
2.4V	1.5V	0.5V	0.6V	0.5V	0.5V	0V	0.4V	0.6V	0.6V	0.6V	0.6V	0.6V

IC301 302	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	4.7V	4.7V	4.7V	4.7V	9.2V	4.4V	0V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.4V
	28	27	26	25	24	23	22	21	20	19	18	17	16	15
	4.7V	0V	0V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.7V	4.6V	4.6V

IC303	1	2	3	4	5	6	7	8
	0V	5.7V	0V	0V	5.7V	5.7V	0V	0V
	16	15	14	13	12	11	10	9
	5.7V	0V	5.7V	0V	0V	5.7V	0V	0V

IC401	1	2	3	4	5	6	7	8	9
	1.4V	3.3V	3.3V	1.3V	0V	2.6V	0V	0V	0V

IC501 502	1	2	3	4	5	6	7	8	9	10	11	12
	3.4V	0V	0V	3.4V	3.4V	3.0V	0V	6.8V	12.5V	6.8V	13.5V	12.5V

IC503	1	2	3	4	5	6	7	8
	6.1V	6.1V	6.1V	0V	6.1V	6.1V	6.1V	12.5V

IC701	1	2	3	4	5	6	7	8
	0V	5.5V	0V	0V	0V	5.7V	0V	0V
	16	15	14	13	12	11	10	9
	5.7V	0V	5.7V	0V	0V	0V	0V	0V

IC702	1	2	3	4	5	6	7	8	9
	0V	0V	0V	0V	0V	0V	0V	0V	0V
	(0V)	(11.9V)	(2.2V)	(0V)	(0V)	(5.1V)	(5.1V)	(11.9V)	(0.7V)

	Q001	Q002	Q003	Q004	Q005	Q103	Q301	Q302	Q303	Q304	Q305
B	0V	1.8V	0V	12.9V	4.5V	0V	12.9V	0V	0V	8.6V	0V
C	8.3V	5.8V	12.1V	0V	0V	0V	0V	0V	9.2V	0V	8.6V
E	0V	1.2V	0V	0V	0V	0V	0V	0V	0V	9.2V	0V

	Q306 Q307	Q308	Q309 Q310	Q401 Q402	Q403 Q404	Q405 S Q408	Q501 Q502	Q601	Q602	Q604 Q603
B	0V	12.9V	0V	1.3V	0.9V	0.66V	0V	6.7V	9.4V/0.1V	0V/0.6V
C	0V	0V	0V	3.8V	0V	0V	0.6V	0V	0V/0.6V	0V
E	0V	0V	0V	0.7V	0V	0V	12.2V	0V	0V	2.0V/0V

	Q605	Q606	Q607	Q608	Q609	Q610	Q611	Q612 Q613	Q614 Q615
B	3.1V	0.7V	0.2V	0V	0V/8.7V	0V	2.2V	6.2V	8.7V
C	0V	0.2V	2.1V/0.1V	2.1V/1.7V	9.4V/0V	13.4V	0V	-0.2V	6.25V
E	0V	0V	0V	0V	0V	0V	0V	2.6V	6.25V

	Q616	Q617	Q618 Q619	Q620	Q621	Q622	Q623	Q624	Q625	Q626
B	13.5V	-0.2V	0V	5.5V	0V	0V	5.0V	0.6V	1.2V	0V
C	-0.2V	2.9V	2.9V	0V	5.7V	0V	0V	1.3V	9.8V	1.3V
E	4.4V	0V	0V	0V	0V	0V	0V	0V	0.6V	0V

	Q627	Q628	Q629	Q630	Q631	Q641	Q650	Q702	Q703	Q704 Q705
B	0V	0V	3.7V	4.7V	12.9V	12.3V	2.2V	12.9V	0V	2.2V
C	9.8V	1.2V	0V	0V	0V	0V	0V	0V	2.2V	0V
E	0V	0V	0V	0V	0V	0.9V	0V	0V	0V	0V

	Q706 ~ Q712	Q713	Q715	Q801	Q802	Q803	Q804	Q805	Q806	Q807
B	0V	12.9V	0V	6.4V	9.9V	0V	7.2V	0V	9.7V	9.7V
C	0V	0V	0V	9.5V	13.0V	13.5V	0V	7.2V	13.3V	12.7V
E	0V	0V	0V	5.7V	9.2V	0V	0V	0V	9.0V	9.1V

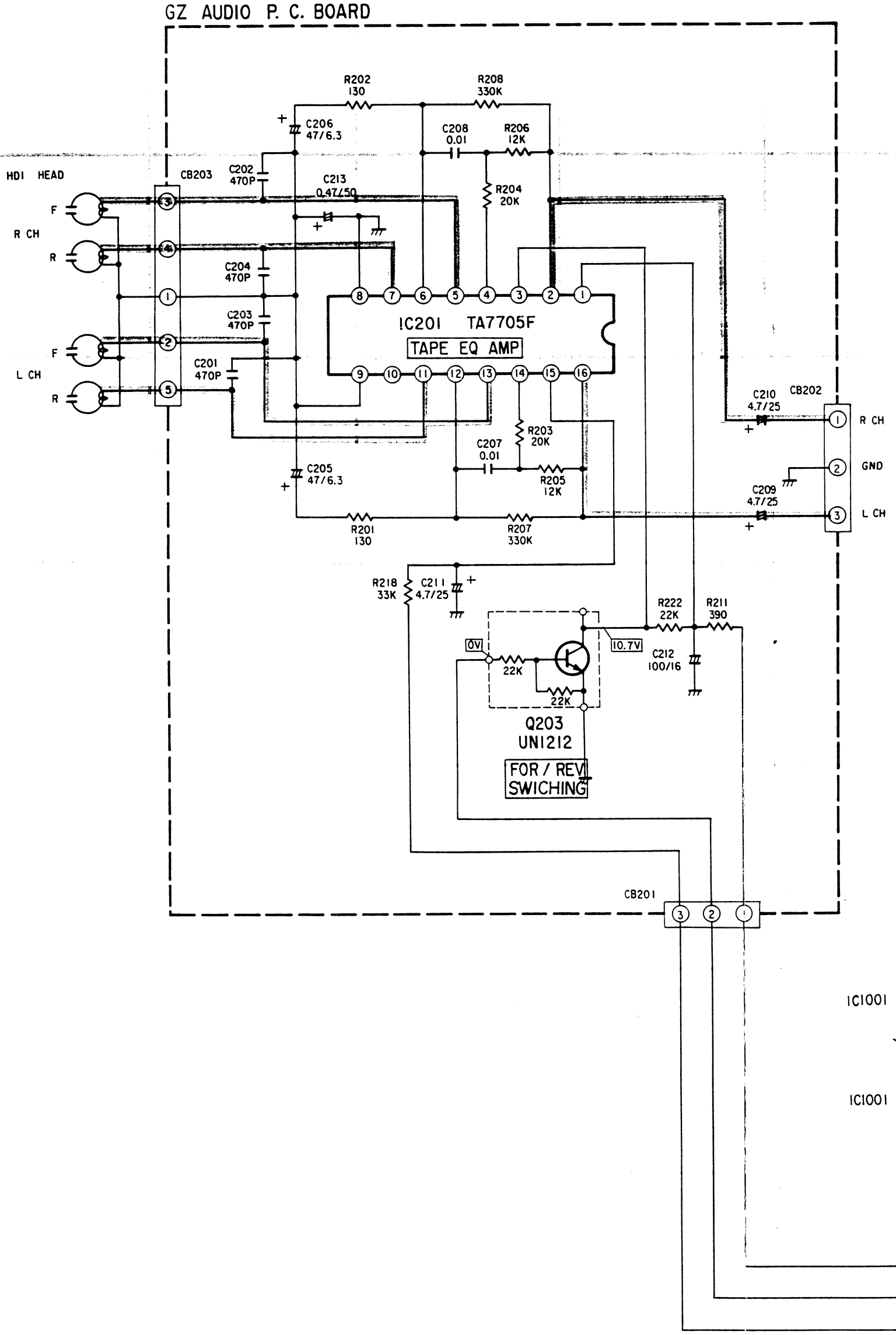
	Q808 Q809	Q810	Q811 Q812	Q813	Q814	Q816	Q817	Q818	PT901	
B	0V	4.2V	0V	8.4V	0V	0V	0V	3.7V	—	
C	9.7V	0V	13.6V	0V	8.4V	13.6V	0V	0V	4.8V	
E	0V	0V	0V	9.0V	0V	0V	0V	0V	4.0V	

NOTES:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. $P = \frac{1}{1{,}000{,}000}$
3. Measuring condition
   - Power supply voltage: DC 14.0V
   - Measuring meter: Digital multi voltmeter
   - Measuring point reference: Between ground
   - Measuring condition: No signal input, each radio (AM/FM), Deck in play conditions.

(2/2)

IC	IC201
Transistor (Q, PT)	Q203
Diode (D, ZD)	



NOTES:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1{,}000{,}000}$

IC1001 IC1002 IC1003

Q1001 Q1002 Q1003 Q1005 Q1004

ZD1003 ZD1004 D1001 ZD1002 ZD1006 ZD1005 D1007

GZ CONTROL P. C. BOARD

TO CH1001

CB1001

PACK OUT +B (3)
BATT +B (2)
ING +B (5)
PACK IN +B (4)
GND (1)

R1001 5.6K

V. STABILIZER

Q1001 2SD973A-S

R1002 82 1/2 — 12.2V — 5.1V

R1003 15K

R1004 1K

5.8V

C1001 47/63

C1002 47/63

ZD1003 HZ5C-1

D1001 MA151WK

ZD1002 HD6B-1

Q1002 UN1212

22K

22K

R1016 10K — 0.1V — 12.2V

R1015 1K 1/2

Q1003 2SB793A

12.6V — R1010 4.7 1/2 — 12.4V

C1008 100/16

MOTOR DRIVER SWITCHING

PACK IN OUT S1 IN

EJECT SW S2

MAIN MOTO M1

IC1002 PU4124

SOLENOID DRIVER

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

R1006 1.2K
R1007 1.2K
R1008 1.2K
R1009 1.2K

PROC SOL
EJEC SOL
PLAY SOL

CB1002

REV IND (1)
METAL IND (2)
FOR IND (3)
BI (4)
MUTE (5)
FF (6)
MS IND (7)
REW (8)
FF IND (9)
PLAY PROG (10)
REW IND (11)
M S (12)
Q.CUE REV (13)
PK I (14)
PAUSE (15)
AUTO CUE (16)
O. PLAY (17)

R1014 5.6K

C1003 8200

R1005 33K

C1004 0.033

ZD1004 HZ5C-1

IC1001 A68339F01

(1) GND — (28) VCC
(2) OSC — (27) O. FAST
(3) CL — (26) O. PROG
(4) BI — (25) O. EJECT
(5) RF SW — (24) O. PLAY
(6) F/R — (23) O. MOTOR
(7) FF — (22) O. MUTE
(8) REW — (21) M.S IND
(9) PLAY PROG — (20) FF IND
(10) M. S — (19) REW IND
(11) PACK IN — (18) O. CUE REV
(12) POSITION SW — (17) RFM 1
(13) RUN DET — (16) RFM 2
(14) AUTO CUE — (15) PAUSE

IC1003 BA6109

RF MOTOR DRIVER

(1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

C1006 0.01

ZD1005 RD5.6MB3

R1011 3.3 1/2

C1005 0.1

Q1004 2SB793A

RF MOTOR M M2

Q1005 DTC124/96

0.1V — R1017 1K 1/2 — R1018 10K — 12.0V

22K

22K

D1007 MA151WK/TX

RF MOTOR DR SWITCH

RF SW S6

FOR S3

REV

POSITION SW

METAL SW

R1021 20K

R1013 33K

R1020 470 1/4

R1019 470 1/4

ZD1006 HZ6B-2

R1012 560

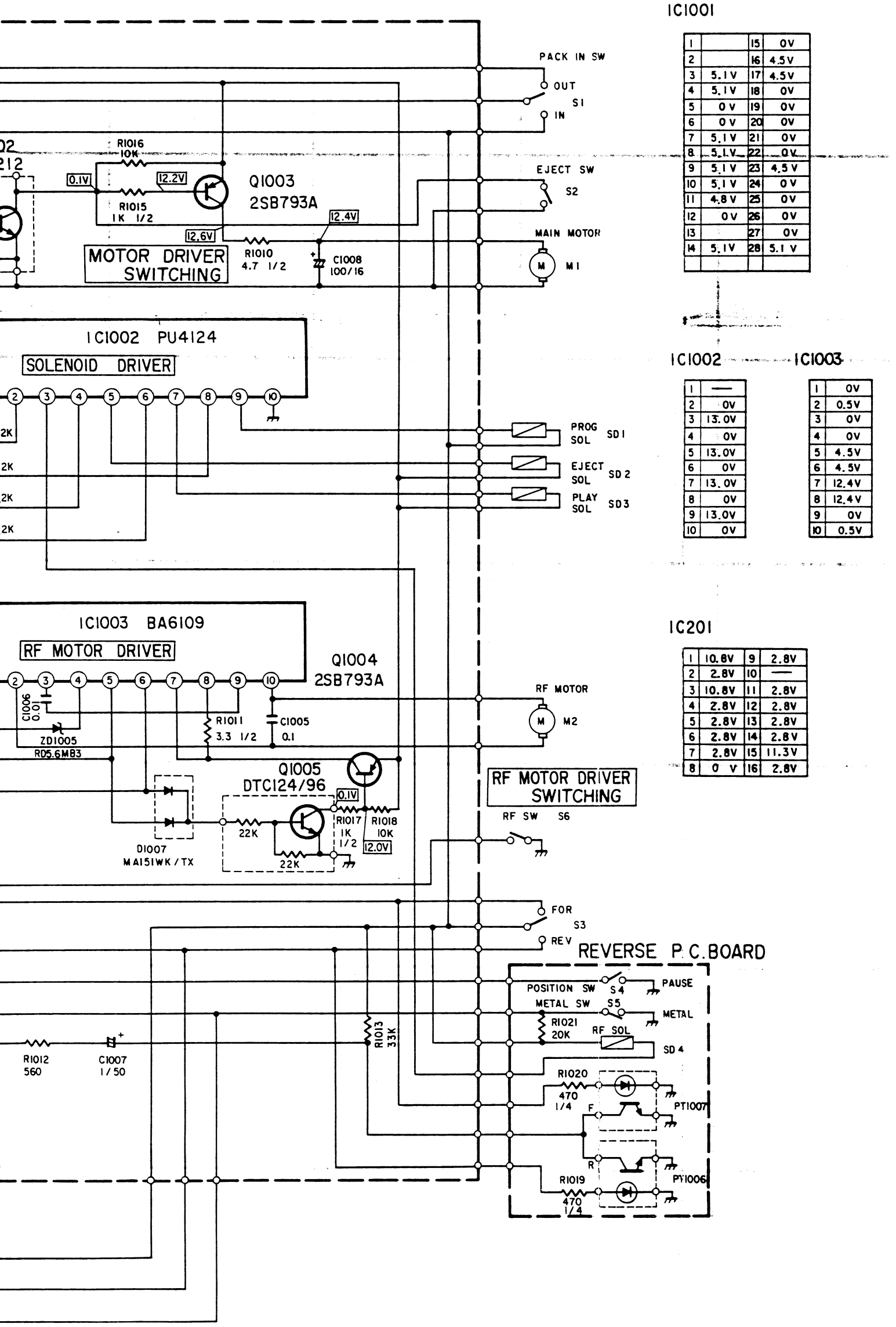
C1007 1/50

DECK CONTROL

E FORM
— 3.4V
— 1.9V

VE FORM
— 3.5 ~ 5V
— 1 ~ 2V
ec

IC1002
IC1003
Q1003 Q1005 Q1004
PT1007
PT1006
ZD1005
D1007



IC1001

1		15	0V
2		16	4.5V
3	5.1V	17	4.5V
4	5.1V	18	0V
5	0V	19	0V
6	0V	20	0V
7	5.1V	21	0V
8	5.1V	22	0V
9	5.1V	23	4.5V
10	5.1V	24	0V
11	4.8V	25	0V
12	0V	26	0V
13		27	0V
14	5.1V	28	5.1V

IC1002

1	—
2	0V
3	13.0V
4	0V
5	13.0V
6	0V
7	13.0V
8	0V
9	13.0V
10	0V

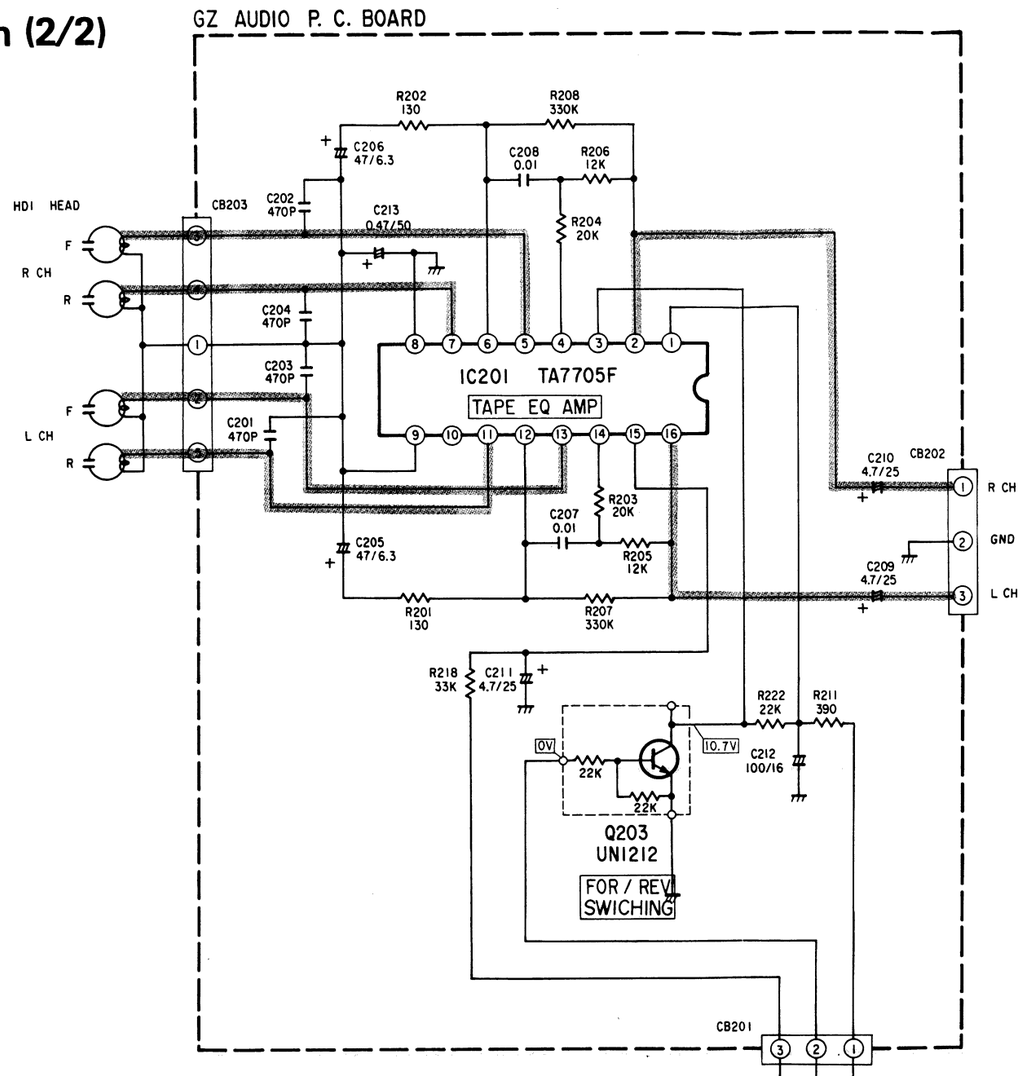
IC1003

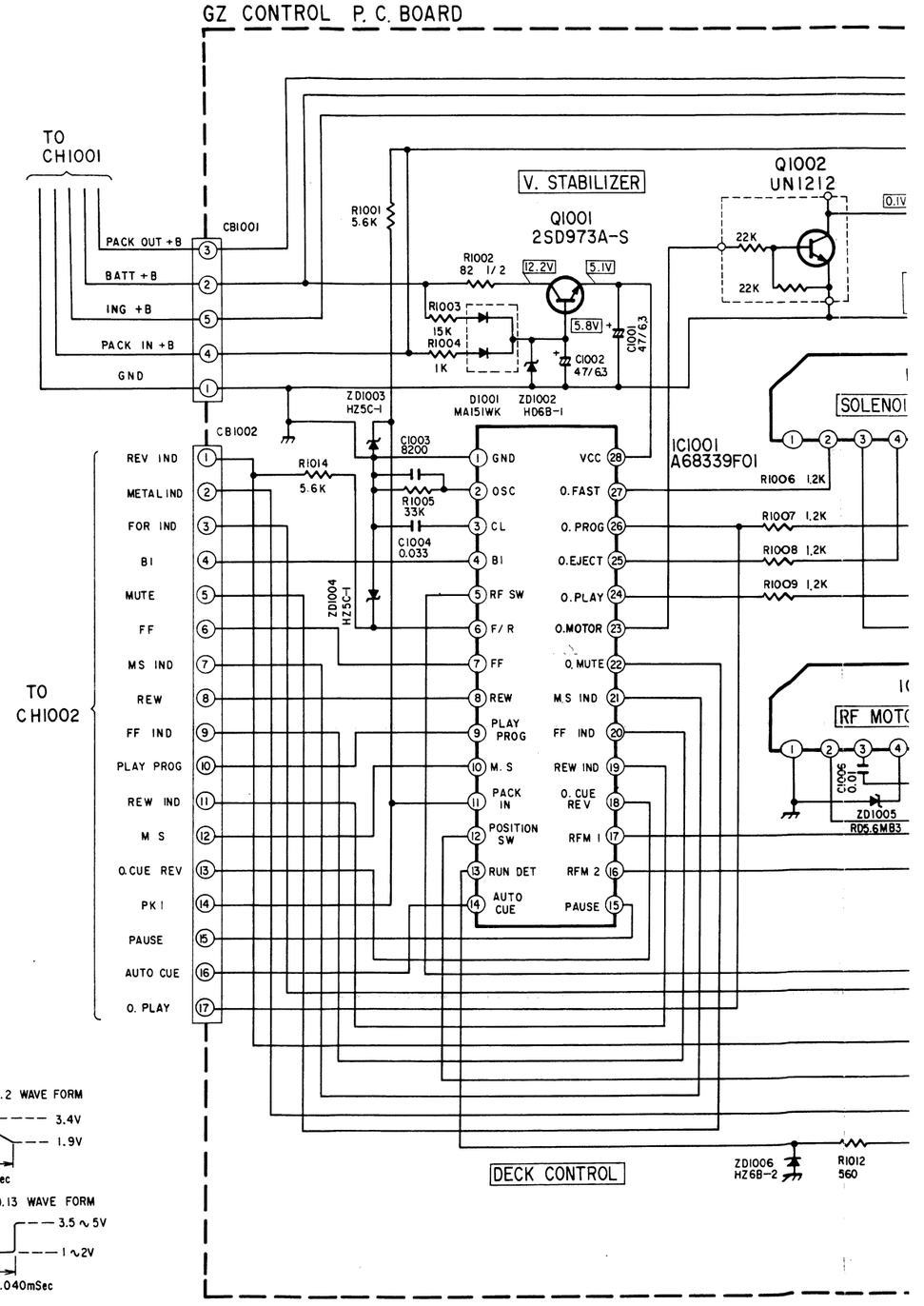
1	0V
2	0.5V
3	0V
4	0V
5	4.5V
6	4.5V
7	12.4V
8	12.4V
9	0V
10	0.5V

IC201

1	10.8V	9	2.8V
2	2.8V	10	—
3	10.8V	11	2.8V
4	2.8V	12	2.8V
5	2.8V	13	2.8V
6	2.8V	14	2.8V
7	2.8V	15	11.3V
8	0V	16	2.8V

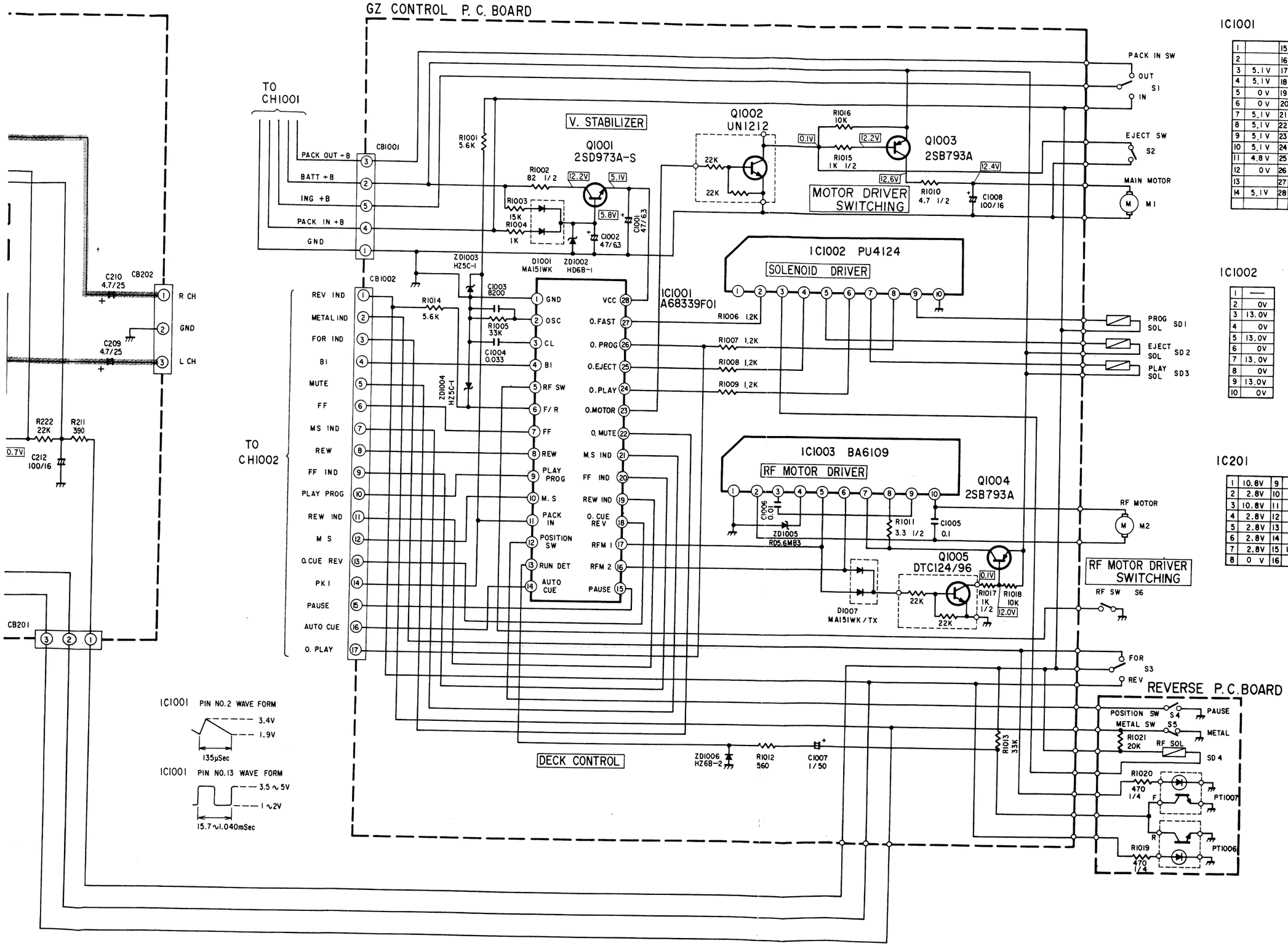
Schematic Diagram (2/2)





NOTES:

1. All resistance values are in ohms. K = 1,000
2. All capacitance values are in microfarads. P = $\frac{1}{1{,}000{,}000}$



IC1001

1		15	0V
2		16	4.5V
3	5.1V	17	4.5V
4	5.1V	18	0V
5	0V	19	0V
6	0V	20	0V
7	5.1V	21	0V
8	5.1V	22	0V
9	5.1V	23	4.5V
10	5.1V	24	0V
11	4.8V	25	0V
12	0V	26	0V
13		27	0V
14	5.1V	28	5.1V

IC1002

1	—
2	0V
3	13.0V
4	0V
5	13.0V
6	0V
7	13.0V
8	0V
9	13.0V
10	0V

IC1003

1	0V
2	0.5V
3	0V
4	0V
5	4.5V
6	4.5V
7	12.4V
8	12.4V
9	0V
10	0.5V

IC201

1	10.8V	9	2.8V
2	2.8V	10	—
3	10.8V	11	2.8V
4	2.8V	12	2.8V
5	2.8V	13	2.8V
6	2.8V	14	2.8V
7	2.8V	15	11.3V
8	0 V	16	2.8V

Electrical Parts List

Resistors: Carbon resistors under 1/4 watts are not mentioned the parts list, please confirm them by schematic diagram.
uF = microfarads, pF = picofarads

Symbol No.	Part No.	Description
	Main P.C. Board	
IC's		
IC301	51T63007F01	AN7370
IC302	51T63007F01	AN7370
IC303	51T63606F01	TC4027BP
IC503	51T52155F01	IC, NJM2041D-D
IC603	51T52392F01	M54563P
IC604	51T67842F01	LB1273R
IC605	51T68687F01	μPD1710G-213
IC606	51T63606F01	TC4027BP
IC607	51T43271F01	μPB553AC
IC701	51T70071F01	μPD4027BG
IC702	51T63081F01	63081F01
Transistors		
Q1	48T64222F05	Chip, UN2215
Q2	48T52438F01	Chip, 2SD601A
Q3	48T64222F06	Chip, UN2216
Q4	48T64222F05	Chip, UN2215
Q5	48T64222F06	Chip, UN2216
Q103	48T57337F01	2SD1330-S, T
Q301	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q302	48S40591U01	2SB641-Q
Q303	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q304	48T62539F05	UN1115
or	48T62962F09	DTA, 114T
Q305	48T62540F07	UN1217
Q306	48T62540F06	UN1216
or	48T62963F09	DTC, 143T
Q307	48T62540F06	UN1216
or	48T62963F09	DTC, 143T
Q308	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q309	48T64222F05	Chip, UN2215
Q310	48T64222F05	Chip, UN2215
Q610	48S42455F03	2SD638-S, R
or	48T63084F01	2SD1228M
Q611	48T62540F05	UN1215
or	48T62963F10	DTC, 114T

Symbol No.	Part No.	Description
Q612	48S40591U01	2SB641-Q
Q613	48S40591U01	2SB641-Q
Q614	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q615	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q616	48S40591U01	2SB641-Q
or	48T62963F10	DTC, 114T
Q617	48S40627U07	2SD636-Q, R, S
or	48T63082F02	2SC2021M-Q, R, S
Q618	48S40627U07	2SD636-Q, R, S
or	48T63082F02	2SC2021M-Q, R, S
Q619	48S40627U07	2SD636-Q, R, S
or	48T63082F02	2SC2021M-Q, R, S
Q620	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q621	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q622	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q623	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q624	48T42182U01	2SD661-U
Q625	48T42182U01	2SD661-U
Q626	48T42182U01	2SD661-U
Q627	48T42182U01	2SD661-U
Q628	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q629	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q630	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q631	48T62540F01	UN1211
Q641	48T64221F07	Chip, UN2117
Q650	48T64222F05	Chip, UN2215
Q701	48T62540F02	UN1212
or	48T62963F03	DTC, 124
Q702	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q703	48T64222F05	Chip, UN2215
Q704	48T64222F06	Chip, UN2216
Q705	48T64222F06	Chip, UN2216
Q706	48T64222F05	Chip, UN2215
Q707	48T62540F05	UN1215
or	48T62963F10	DTC, 114T

Symbol No.	Part No.	Description
Q708	48T64222F05	Chip, UN2215
Q709	48T64222F01	Chip, UN2211
Q710	48T64222F01	Chip, UN2211
Q711	48T64222F05	Chip, UN2215
Q712	48T64222F05	Chip, UN2215
Q713	48T64222F05	Chip, UN2215
Q715	48T64222F05	Chip, UN2215
Q801	48S42455F03	2SD638-S, R
or	48T63084F01	2SD1228M
Q802	48S42455F03	2SD638-S, R
or	48T63084F01	2SD1228M
Q803	48S42455F03	2SD638-S, R
or	48T63084F01	2SD1228M
Q804	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q805	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q806	48S42455F03	2SD638-S, R
or	48T63084F01	2SD1228M
Q807	48S42455F03	2SD638-S, R
or	48T63084F01	2SD1228M
Q808	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q809	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q810	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q811	48T62540F06	UN1216
or	48T62963F09	DTC, 143T
Q812	48T62540F06	UN1216
or	48T62963F09	DTC, 143T
Q813	48T62539F05	UN1115
or	48T62962F09	DTA, 114T
Q814	48T62540F05	UN1215
or	48T62963F10	DTC, 114T
Q816	48T64222F06	Chip, UN2216
Q817	48T64222F05	Chip, UN2215
Q818	48T62540F05	UN1215
or	48T62963F10	DTC, 114T

Symbol No.	Part No.	Description
Diodes		
D1	48T44813F01	MA165TA
or	48T58583F01	SS176
D2	48T44813F01	MA165TA
or	48T58583F01	SS176
D3	48T44813F01	MA165TA
or	48T58583F01	SS176
D4	48T52446F01	Chip, MA151WK
D101	48S134816	1S1555
D102	48S134816	1S1555
D103	48T44813F01	MA165TA
or	48T58583F01	SS176
D104	48T44813F01	MA165TA
or	48T58583F01	SS176
D105	48T44813F01	MA165TA
or	48T58583F01	SS176
D502	48T44813F01	MA165TA
or	48T58583F01	SS176
D611	48T44813F01	MA165TA
or	48T58583F01	SS176
D612	48T44813F01	MA165TA
or	48T58583F01	SS176
D613	48T44813F01	MA165TA
or	48T58583F01	SS176
D614	48T44813F01	MA165TA
or	48T58583F01	SS176
D615	48T44813F01	MA165TA
or	48T58583F01	SS176
D616	48T44813F01	MA165TA
or	48T58583F01	SS176
D617	48T44813F01	MA165TA
or	48T58583F01	SS176
D618	48T44813F01	MA165TA
or	48T58583F01	SS176
D619	48T44813F01	MA165TA
or	48T58583F01	SS176
D620	48T44813F01	MA165TA
or	48T58583F01	SS176
D621	48T44813F01	MA165TA
or	48T58583F01	SS176
D622	48T44813F01	MA165TA
or	48T58583F01	SS176

Symbol No.	Part No.	Description
D624	48T44813F01	MA165TA
or	48T58583F01	SS176
D625	48T44813F01	MA165TA
or	48T58583F01	SS176
D626	48T44813F01	MA165TA
or	48T58583F01	SS176
D627	48T44813F01	MA165TA
or	48T58583F01	SS176
D628	48T44813F01	MA165TA
or	48T58583F01	SS176
D629	48T44813F01	MA165TA
or	48T58583F01	SS176
D630	48T44813F01	MA165TA
or	48T58583F01	SS176
D631	48T44813F01	MA165TA
or	48T58583F01	SS176
D650	48T44813F01	MA165TA
or	48T58583F01	SS176
D680	48T44813F01	MA165TA
D701	48T52446F01	Chip, MA151WK
D702	48T44813F01	MA165TA
or	48T58583F01	SS176
D703	48T44813F01	MA165TA
or	48T58583F01	SS176
D704	48T44813F01	MA165TA
or	48T58583F01	SS176
D705	48T44813F01	MA165TA
or	48T58583F01	SS176
D706	48T65992F01	Chip, MA151K
D707	48T44813F01	MA165TA
or	48T58583F01	SS176
D708	48T65992F01	Chip, MA151K
D709	48T44813F01	MA165TA
or	48T58583F01	SS176
D710	48T44813F01	MA165TA
or	48T58583F01	SS176
D711	48T52446F01	Chip, MA151WK
D712	48T52446F01	Chip, MA151WK
D713	48T52446F01	Chip, MA151WK
D730	48T52446F01	Chip, MA151WK
D770	48T44813F01	MA165TA
D771	48T44813F01	MA165TA
D801	48C40235G02	10E2
D802	48C40235G02	10E2

Symbol No.	Part No.	Description
D803	48T44813F01	MA165TA
or	48T58583F01	SS176
ZD801	48T52739F44	Zener, HZ7A-2
ZD803	48T52739F61	Zener, HZ11A-1
ZD804	48T52741F27	Zener, HZ9C-3L
ZD805	48T52741F27	Zener, HZ9C-3L
ZD806	48T52741F27	Zener, HZ9C-3L
ZD807	48T52739F32	Zener, HZ5C-2
ZD808	48T52739F61	Zener, HZ11A-1
Lamps		
L1	24T42241U02	Dolby 23-10 (WHT)
L2	24T42241U02	Dolby 23-10 (WHT)
L101	24T51656F22	Inductor 10μH
L301	24T60149F01	36mH
L302	24T60149F01	36mH
L801	25T47510F04	Choke, Filter
L802	25T40455U05	Choke, Trans
Switch/Crystal		
S501	40T68056F01	SSJ-322 (B) (PRE IN)
X601	48T68055F01	Crystal, 4.5 MHz
Protector		
DSP1	48T70875F01	DSP-301N
Capacitors		
C1	23T61523F16	Electrolytic 3.3 uF/25V
C2	08S60102F28	Chip 0.047 uF
C3	08S53332F45	Chip 6800 pF
C4	08S53332F45	Chip 6800 pF
C5	23T61524F18	Electrolytic 4.7 uF/25V
C6	23T61524F18	Electrolytic 4.7 uF/25V
C25	08S53332F41	Chip 3300 pF
C26	08S53332F41	Chip 3300 pF
C101	08S53332F51	Chip 0.022 uF
C102	23C44780P20	Electrolytic 100 uF/10V

Symbol No.	Part No.	Description
C103	23T61523F12	Electrolytic 10 uF/16V
C104	23T61523F27	Electrolytic 0.33 uF/50V
C105	08S60102F29	Chip 0.056 uF
C106	23T43247F08	Electrolytic 4.7 uF/25V
C107	23T43247F08	Electrolytic 4.7 uF/25V
C301	08S53332F41	Chip 3300 pF
C302	08S53332F41	Chip 3300 pF
C303	23T61524F13	Electrolytic 10 uF/16V
C304	23T61524F13	Electrolytic 10 uF/16V
C305	23T43247F20	Electrolytic 470 uF/6.3V
C306	23T43247F20	Electrolytic 470 uF/6.3V
C307	23T61524F32	Electrolytic 1.0 uF/50V
C308	23T61524F32	Electrolytic 1.0 uF/50V
C309	08S53332F38	Chip 1800 pF
C310	08S53332F38	Chip 1800 pF
C311	08S53332F47	Chip 0.01 uF
C312	08S53332F47	Chip 0.01 uF
C313	08S53332F53	Chip 0.033 uF
C314	08S53332F53	Chip 0.033 uF
C315	23T61524F28	Electrolytic 0.1 uF/50V
C316	23T61524F28	Electrolytic 0.1 uF/50V
C317	23T61524F30	Electrolytic 0.33 uF/50V
C318	23T61524F30	Electrolytic 0.33 uF/50V
C319	23T61523F28	Electrolytic 0.47 uF/50V
C320	23T61523F28	Electrolytic 0.47 uF/50V
C321	08T50579F15	TF 0.15 uF
C322	08T50579F15	TF 0.15 uF
C323	23T61523F12	Electrolytic 10 uF/16V
C324	23T61523F12	Electrolytic 10 uF/16V
C325	08S53332F52	Chip 0.027 uF
C326	08S53332F52	Chip 0.027 uF
C327	08S53332F43	Chip 4700 pF
C328	08S53332F43	Chip 4700 pF
C329	08S53332F53	Chip 0.033 uF
C330	08S53332F53	Chip 0.033 uF
C331	08S53332F46	Chip 8200 pF
C332	08S53332F46	Chip 8200 pF
C333	08S53332F52	Chip 0.027 uF
C334	08S53332F52	Chip 0.027 uF
C335	23T43247F09	Electrolytic 10 uF/16V
C336	23T61523F12	Electrolytic 10 uF/16V
C337	08S53332F23	Chip 100 pF
C338	08S53332F23	Chip 100 pF
C339	23T43247F11	Electrolytic 33 uF/10V
C340	23T61523F14	Electrolytic 33 uF/16V

Symbol No.	Part No.	Description
C347	23T61523F12	Electrolytic 10 uF/16V
C348	08S53332F51	Chip 0.022 uF
C349	23T61523F30	Electrolytic 2.2 uF/50V
C350	23T61524F29	Electrolytic 0.22 uF/50V
C351	23T61524F31	Electrolytic 0.47 uF/50V
C397	08S53332F40	Chip 2700 pF
C398	08S53332F40	Chip 2700 pF
C524	23T61513F09	Electrolytic 47 uF/10V
C525	23S41198U26	Electrolytic 47 uF/10V
C526	23T61524F18	Electrolytic 4.7 uF/25V
C527	23T57007F08	Electrolytic 4.7 uF/25V
C528	23T61524F32	Electrolytic 1.0 uF/50V
C529	23T57422F05	Electrolytic 1.0 uF/50V
C530	23S41198U26	Electrolytic 47 uF/10V
C531	23T61513F09	Electrolytic 47 uF/10V
C532	23C44780P23	Electrolytic 220 uF/16V
C533	08S60102F28	Chip 0.047 uF
C534	08S60102F28	Chip 0.047 uF
C535	08S60102F28	Chip 0.047 uF
C536	08S60102F28	Chip 0.047 uF
C631	23C44780P19	Electrolytic 220 uF/10V
C632	23T57422F06	Electrolytic 2.2 uF/50V
C633	23T61523F30	Electrolytic 2.2 uF/50V
C634	08S53332F51	Chip 0.022 uF
C635	08S53332F51	Chip 0.022 uF
C636	23T57422F06	Electrolyti 2.2 uF/50V
C637	08S53332F47	Chip 0.01 uF
C638	23T41366F41	Electrolytic 2.2 uF/50V
C639	08S53332F56	Chip 0.068 uF
C640	23T41366F41	Electrolytic 2.2 uF/50V
C641	23T57422F03	Electrolytic 0.33 uF/50V
C642	23T57422F05	Electrolytic 1.0 uF/50V
C643	08S53332F11	Chip 10 pF
C644	08S53332F11	Chip 10 pF
C645	08S53332F47	Chip 0.01 uF
C647	23C44780P23	Electrolytic 220 uF/16V
C649	21C45322G32	Ceramic 0.022 uF
C650	21C45322G32	Ceramic 0.022 uF
C652	23T57422F05	Electrolytic 1.0 uF/50V
C660	08S53332F47	Chip 0.01 uF
C690	21C45322G32	Ceramic 0.022 uF
C701	23T61524F18	Electrolytic 4.7 uF/25V
C703	08S53332F51	Chip 0.022 uF
C704	23S41059P05	Tantalum 0.47 uF/35V
C705	23T61513F14	Electrolytic 47 uF/16V

Symbol No.	Part No.	Description
C706	23S41059P01	Tantalum 0.1 uF/35V
C707	08S53332F47	Chip 0.01 uF
C751	08S53332F23	Chip 100 pF
C752	21C45322G22	Ceramic 100 pF
C801	08T57705F75	Mylar 0.047 uF
C802	08T57705F75	Mylar 0.047 uF
C803	23S41198U26	Electrolytic 47 uF/10V
C805	23T43247F20	Electrolytic 470 uF/6.3V
C806	23C44780P19	Electrolytic 220 uF/10V
C807	23C44780P20	Electrolytic 100 uF/10V
C808	23C44780P20	Electrolytic 100 uF/10V
C809	23C44780P20	Electrolytic 100 uF/10V
C810	08S53332F51	Chip 0.022 uF
C811	23C44780P20	Electrolytic 100 uF/10V
C812	23C44780P20	Electrolytic 100 uF/10V
C813	23C44780P19	Electrolytic 220 uF/10V
C850	23T57422F05	Electrolytic 1.0 uF/50V
C855	23C42170G30	Electrolytic 470 uF/16V
C856	23T61523F12	Electrolytic 10 uF/16V
Resistors		
R2	06S53330F53	Chip 1K ohm 1/8W
R3	06S53330F65	Chip 3.3K ohm 1/8W
R4	06S53330F99	Chip 82K ohm 1/8W
R5	06S53330F63	Chip 2.7K ohm 1/8W
R6	06S53330F85	Chip 22K ohm 1/8W
R7	06S53330F53	Chip 1K ohm 1/8W
R9	06S53330F65	Chip 3.3K ohm 1/8W
R10	06S53330F65	Chip 3.3K ohm 1/8W
R11	06S53330F69	Chip 4.7K ohm 1/8W
R12	06T70072F57	Chip 1.5K ohm 1/4W
R102	06S53330F53	Chip 1K ohm 1/8W
R103	06S53330F85	Chip 22K ohm 1/8W
R104	06S53330F69	Chip 4.7K ohm 1/8W
R105	06S53330F87	Chip 27K ohm 1/8W
R106	06S53330F93	Chip 47K ohm 1/8W
R107	06S53330F53	Chip 1K ohm 1/8W
R108	06S53330F77	Chip 10K ohm 1/8W
R109	06S53330F93	Chip 47K ohm 1/8w
R110	06S53330F93	Chip 47K ohm 1/8W
R111	06S53330F77	Chip 10K ohm 1/8W

Symbol No.	Part No.	Description
R201	06S53330F69	Chip 4.7K ohm 1/8W
R202	06S53330F69	Chip 4.7K ohm 1/8W
R301	06S53330F68	Chip 4.3K ohm 1/8W
R302	06S53330F68	Chip 4.3K ohm 1/8W
R303	06S53330F62	Chip 2.4K ohm 1/8W
R304	06S53330F62	Chip 2.4K ohm 1/8W
R305	06S53330F65	Chip 3.3K ohm 1/8W
R306	06S53330F65	Chip 3.3K ohm 1/8W
R307	06S53330F53	Chip 1K ohm 1/8W
R308	06S53330F53	Chip 1K ohm 1/8W
R309	06S53330F91	Chip 39K ohm 1/8W
R310	06S53330F91	Chip 39K ohm 1/8W
R311	06S53331F10	Chip 220K ohm 1/8W
R312	06S53331F10	Chip 220K ohm 1/8W
R313	06S53331F09	Chip 200K ohm 1/8W
R314	06S53331F09	Chip 200K ohm 1/8W
R315	06S53331F09	Chip 200K ohm 1/8W
R316	06S53331F09	Chip 200K ohm 1/8W
R317	06S53330F68	Chip 4.3K ohm 1/8W
R318	06S53330F68	Chip 4.3K ohm 1/8W
R319	06S53330F75	Chip 8.2K ohm 1/8W
R320	06S53330F75	Chip 8.2K ohm 1/8W
R321	06S53330F73	Chip 6.8K ohm 1/8W
R322	06S53330F73	Chip 6.8K ohm 1/8W
R323	06S53330F93	Chip 47K ohm 1/8W
R324	06S53330F93	Chip 47K ohm 1/8W
R325	06S53330F41	Chip 330 ohm 1/8W
R326	06S53330F41	Chip 330 ohm 1/8W
R327	06S53330F45	Chip 470 ohm 1/8W
R328	06S53330F45	Chip 470 ohm 1/8W
R329	06S53330F80	Chip 13K ohm 1/8W
R330	06S53330F80	Chip 13K ohm 1/8W
R331	06S53330F39	Chip 270 ohm 1/8W
R332	06S53330F39	Chip 270 ohm 1/8W
R333	06S53330F77	Chip 10K ohm 1/8W
R334	06S53330F77	Chip 10K ohm 1/8W
R335	06S53330F91	Chip 39K ohm 1/8W
R336	06S53330F77	Chip 10K ohm 1/8W
R337	06S53330F85	Chip 22K ohm 1/8W
R338	06S53330F87	Chip 27K ohm 1/8W
R339	06S53330F77	Chip 10K ohm 1/8W
R341	06S53330F86	Chip 24K ohm 1/8W
R342	06S53330F85	Chip 22K ohm 1/8W
R343	06S53331F14	Chip 330K ohm 1/8W

Symbol No.	Part No.	Description
R431	06S53330F65	Chip 3.3K ohm 1/8W
R432	06S53330F97	Chip 68K ohm 1/8W
R513	06S53330F35	Chip 180 ohm 1/8W
R514	06S53330F35	Chip 180 ohm 1/8W
R515	06S53330F37	Chip 220 ohm 1/8W
R516	06S53330F37	Chip 220 ohm 1/8W
R517	06S53330F83	Chip 18K ohm 1/8W
R518	06S53330F83	Chip 18K ohm 1/8W
R519	06S53330F59	Chip 1.8K ohm 1/8W
R520	06S53330F59	Chip 1.8K ohm 1/8W
R521	06S53331F02	Chip 100K ohm 1/8W
R522	06S53331F02	Chip 100K ohm 1/8W
R523	06S53330F91	Chip 39K ohm 1/8W
R524	06S53330F91	Chip 39K ohm 1/8W
R525	06S53330F97	Chip 68K ohm 1/8W
R526	06S53330F97	Chip 68K ohm 1/8W
R527	06S53330F29	Chip 100 ohm 1/8W
R528	06S53330F53	Chip 1K ohm 1/8W
R529	06S53330F53	Chip 1K ohm 1/8W
R530	06S53330F77	Chip 10K ohm 1/8W
R531	06S53330F77	Chip 10K ohm 1/8W
R637	06S53330F77	Chip 10K ohm 1/8W
R640	51T58409F01	Block RGLD4X 22K ohm
R641	06T70072F61	Chip 2.2K ohm 1/4W
R642	06S53330F69	Chip 4.7K ohm 1/8W
R644	06S53330F53	Chip 1K ohm 1/8W
R645	06S53330F53	Chip 1K ohm 1/8W
R646	06S53330F93	Chip 47K ohm 1/8W
R647	06S53330F93	Chip 47K ohm 1/8W
R648	06S53330F77	Chip 10K ohm 1/8W
R649	06S53330F77	Chip 10K ohm 1/8W
R650	06S53330F93	Chip 47K ohm 1/8W
R652	06S53330F93	Chip 47K ohm 1/8W
R653	06S53330F93	Chip 47K ohm 1/8W
R654	06S53330F77	Chip 10K ohm 1/8W
R655	06S53330F77	Chip 10K ohm 1/8W
R656	06S53330F89	Chip 33K ohm 1/8W
R657	06S53330F85	Chip 22K ohm 1/8W
R658	06S53330F85	Chip 22K ohm 1/8W
R659	06S53331F14	Chip 330K ohm 1/8W
R660	06S53330F69	Chip 4.7K ohm 1/8W
R661	06S53330F65	Chip 3.3K ohm 1/8W
R662	06S53330F05	Chip 10 ohm 1/8W
R663	06S53330F65	Chip 3.3K ohm 1/8W
R664	06S53330F53	Chip 1K ohm 1/8W

Symbol No.	Part No.	Description
R665	06S53330F53	Chip 1K ohm 1/8W
R666	06S53331F26	Chip 1M ohm 1/8W
R667	06S53330F63	Chip 2.7K ohm 1/8W
R668	06S53330F69	Chip 4.7K ohm 1/8W
R669	06S53330F05	Chip 10 ohm 1/8W
R670	06S53331F26	Chip 1M ohm 1/8W
R671	06S53330F75	Chip 8.2K ohm 1/8W
R672	06S53330F63	Chip 2.7K ohm 1/8W
R673	06S53330F73	Chip 6.8K ohm 1/8W
R674	06S53330F53	Chip 1K ohm 1/8W
R675	06S53330F77	Chip 10K ohm 1/8W
R676	06S53330F61	Chip 2.2K ohm 1/8W
R678	06S53330F93	Chip 47K ohm 1/8W
R679	06S53330F77	Chip 10K ohm 1/8W
R681	06S53330F77	Chip 10K ohm 1/8W
R682	06T70072F29	Chip 100 ohm 1/4W
R683	06T70072F29	Chip 100 ohm 1/4W
R684	06T70072F29	Chip 100 ohm 1/4W
R685	06T70072F29	Chip 100 ohm 1/4W
R686	06T70072F29	Chip 100 ohm 1/4W
R687	06T70072F29	Chip 100 ohm 1/4W
R688	06T70072F26	Chip 75 ohm 1/4W
R689	06T70072F09	Chip 15 ohm 1/4W
R690	06S53330F69	Chip 4.7K ohm 1/8W
R697	06S53330F89	Chip 33K ohm 1/8W
R702	06S53330F81	Chip 15K ohm 1/8W
R703	06S53331F02	Chip 100K ohm 1/8W
R704	06S53330F93	Chip 47K ohm 1/8W
R706	06S53331F02	Chip 100K ohm 1/8W
R707	06S53330F53	Chip 1K ohm 1/8W
R708	06S53330F69	Chip 4.7K ohm 1/8W
R709	06S53331F02	Chip 100K ohm 1/8W
R710	06S53331F02	Chip 100K ohm 1/8W
R711	06S53331F06	Chip 150K ohm 1/8W
R712	06T70072F29	Chip 100 ohm 1/4W
R713	06S53330F85	Chip 22K ohm 1/8W
R714	06S53331F11	Chip 240K ohm 1/8W
R715	06S53331F24	Chip 820K ohm 1/8W
R716	06T70072F49	Chip 680 ohm 1/4W
R717	06T70072F49	Chip 680 ohm 1/4W
R719	06S53330F63	Chip 2.7K ohm 1/8W
R723	06S53330F69	Chip 4.7K ohm 1/8W
R724	06S53330F53	Chip 1K ohm 1/8W
R802	06T70072F41	Chip 330 ohm 1/4W
R803	06S53330F81	Chip 15K ohm 1/8W

Symbol No.	Part No.	Description
R804	06S53330F77	Chip 10K ohm 1/8W
R805	06T70072F05	Chip 10 ohm 1/4W
R806	06S53330F53	Chip 1K ohm 1/8W
R807	06T70072F05	Chip 10 ohm 1/4W
R808	06S53330F77	Chip 10K ohm 1/8W
R809	06S53330F53	Chip 1K ohm 1/8W
R810	06S53330F77	Chip 10K ohm 1/8W
R811	06T70072F05	Chip 10 ohm 1/4W
R812	06T70072F05	Chip 10 ohm 1/4W
R813	06S53330F53	Chip 1K ohm 1/8W
R814	06S53330F53	Chip 1K ohm 1/8W
R815	06T70072F41	Chip 330 ohm 1/4W
R818	06T70072F47	Chip 560 ohm 1/4W
R821	06T70072F57	Chip 1.5K ohm 1/4W
R822	06T70072F51	Chip 820 ohm 1/4W
R824	06S53330F77	Chip 10K ohm 1/8W
VR301	18T42748F13	Variable,Volume 10K ohm
VR302	18T42748F13	Variable,Volume 10K ohm

GZ Audio P.C. Board

IC/Transistors

IC201	51T64606F01	TA7705F
Q203	48T62540F02	UN1212
or	48T62963F03	DTC124

Capacitors

C201	08S53332F31	Chip	470 pF
C202	08S53332F31	Chip	470 pF
C203	08S53332F31	Chip	470 pF
C204	08S53332F31	Chip	470 pF
C205	23T57422F14	Electrolytic	47 uF/6.3V
C206	23T61523F05	Electrolytic	47 uF/6.3V
C207	08S53332F47	Chip	0.01 uF
C208	08S53332F47	Chip	0.01 uF
C209	23T61523F17	Electrolytic	4.7 uF/25V
C210	23T57422F08	Electrolytic	4.7 uF/25V
C211	23T61523F17	Electrolytic	4.7 uF/25V
C212	23C44780P16	Electrolytic	100 uF/16V
C213	23T43247F04	Electrolytic	0.47 uF/50V

Resistors (All resistors are chip parts, 1/8W, ±5% unless otherwise noted.)

R201	06S53330F32	130 ohm
R202	06S53330F32	130 ohm
R203	06S53330F84	20K ohm
R204	06S53330F84	20K ohm
R205	06S53330F79	12K ohm
R206	06S53330F79	12K ohm
R207	06S53331F14	330K ohm
R208	06S53331F14	330K ohm
R211	06S53330F43	390 ohm
R218	06S53330F89	33K ohm
R222	06S53330F85	22K ohm

Volume P.C. Board

IC/Transistors

IC401	51S42616F01	IC, TA7324P
Q401	48S40627U01	2SD636-Q
Q402	48S40627U01	2SD636-Q
Q403	48T62540F05	UN1215
Q404	48T62540F05	UN1215
Q405	48T57337F01	2SD1330-S, T
Q406	48T57337F01	2SD1330-S, T
Q407	48T57337F01	2SD1330-S, T
Q408	48T57337F01	2SD1330-S, T

Switches

S401	40T68063F01	SSJ-322A (Pre Fader)

Symbol No.	Part No.	Description	
Capacitors			
C401	23T61523F29	Electrolytic	1.0 uF/50V
C402	23T61523F29	Electrolytic	1.0 uF/50V
C403	23T57422F09	Electrolytic	10 uF/16V
C404	23T61523F12	Electrolytic	10 uF/16V
C405	21C45322G22	Ceramic	100 pF
C406	21C45322G22	Ceramic	100 pF
C407	23T57422F01	Electrolytic	0.1 uF/50V
C408	23T57422F01	Electrolytic	0.1 uF/50V
C409	23C44780P19	Electrolytic	220 uF/10V
C410	23T61523F11	Electrolytic	47 uF/10V
C411	08T42629F73	Mylar	0.03 uF
C412	08T42629F73	Mylar	0.03 uF
C413	08S53332F47	Chip	0.01 uF
C414	23S41059P19	Tantalum	4.7 uF/25V
C421	21C45322G32	Ceramic	0.022 uF
Resistors			
R401	06S53330F53	Chip	1K ohm 1/8W
R402	06S53330F53	Chip	1K ohm 1/8W
R403	06S53331F06	Chip	150K ohm 1/8W
R404	06S53331F06	Chip	150K ohm 1/8W
R405	06S53330F89	Chip	33K ohm 1/8W
R407	06S53330F71	Chip	5.6K ohm 1/8W
R408	06S53330F71	Chip	5.6K ohm 1/8W
R409	06S53330F53	Chip	1K ohm 1/8W
R410	06S53330F53	Chip	1K ohm 1/8W
R411	06S53330F69	Chip	4.7K ohm 1/8W
R412	06S53330F69	Chip	4.7K ohm 1/8W
R413	06S53330F53	Chip	1K ohm 1/8W
R414	06S53330F83	Chip	18K ohm 1/8W
R415	06S53330F77	Chip	10K ohm 1/8W
R416	06S53330F71	Chip	5.6K ohm 1/8W
R417	06S53330F71	Chip	5.6K ohm 1/8W
R418	06S53330F63	Chip	2.7K ohm 1/8W
R419	06S53330F53	Chip	1K ohm 1/8W
R420	06S53331F06	Chip	150K ohm 1/8W
R421	06S53330F83	Chip	18K ohm 1/8W
R422	06S53330F61	Chip	2.2K ohm 1/8W
R433	51T68217F01	Block RGLF 4 x 2.2K ohm	

Symbol No.	Part No.	Description
VR401, VR402, VR403, VR408, VR409, VR410, VR411, S402, S403	18T68685F01	Variable, Volume, Rotary
Rear Chassis/Power Amp P.C. Board		
IC's/Transistor		
IC501	51T53245F01	MB3731M
IC502	51T53245F01	MB3731M
Q501	48T53397F06	FET, 2SK163-M2
Q502	48T53397F06	FET, 2SK163-M2
Diode		
D501	48T68079F02	30D4-FE
Capacitors		
C501	23T61512F08	Electrolytic 10 uF/16V
C502	23T61512F08	Electrolytic 10 uF/16V
C503	23T61512F08	Electrolytic 10 uF/16V
C504	23T61512F08	Electrolytic 10 uF/16V
C505	23C44780P19	Electrolytic 220 uF/10V
C506	23C44780P19	Electrolytic 220 uF/10V
C508	23T51232F01	Electrolytic 2200 uF/16V
C509	08T65480F49	Ceramic 1000 pF
C510	08T65480F49	Ceramic 1000 pF
C511	23C44780P20	Electrolytic 100 uF/10V
C512	23C44780P20	Electrolytic 100 uF/10V
C513	23C44780P20	Electrolytic 100 uF/10V
C514	23C44780P20	Electrolytic 100 uF/10V
C515	08T57851F13	TF 0.1 uF
C516	08T57851F13	TF 0.1 uF
C517	08T57851F13	TF 0.1 uF
C518	08T57851F13	TF 0.1 uF
C519	08T50579F13	TF 0.1 uF
C520	08T57851F13	TF 0.1 uF
C521	23C44780P16	Electrolytic 100 uF/16V

Symbol No.	Part No.	Description
C522	21C45322G26	Ceramic 330 pF
C523	21C45322G26	Ceramic 330 pF

SDK P.C. Board

IC's/Transistors

IC601	51T69141F01	LA2220
IC602	51T47473F01	LA2211
Q601	48T62540F07	UN1217
Q602	48T62540F01	UN1211
Q603	48T57337F01	2SD1330-S, T
Q604	48T57337F01	2SD1330-S, T
Q605	48T62540F07	UN1217
Q606	48S40627U01	2SD636-Q
Q607	48S40627U01	2SD636-Q
Q608	48T63417F03	Chip, 2SC2412K
Q609	48T62540F01	UN1211

Diodes

D601	48T52446F01	Chip, MA151WK
D602	48T52446F01	Chip, MA151WK
D603	48T52446F01	Chip, MA151WK
D632	48T52446F01	Chip, MA151WK
ZD601	48T52739F52	Zener, HZ9A-1

Filter

CF601	91T69142F01	CSB, 456F13

Symbol No.	Part No.	Description
Capacitors		
C601	23T61524F32	Electrolytic 1.0 uF/50V
C602	08S60102F28	Chip 0.047 uF
C603	23T57007F04	Electrolytic 0.47 uF/50V
C604	23T43247F03	Electrolytic 0.33 uF/50V
C605	08T42629F77	Mylar 0.068 uF
C606	23T61524F09	Electrolytic 22 uF/10V
C607	23T43247F08	Electrolytic 4.7 uF/25V
C608	08T42629F09	Mylar 2200 pF
C609	08T57705F55	Mylar 1000 pF
C610	08T57705F55	Mylar 1000 pF
C611	23T61524F12	Electrolytic 100 uF/10V
C612	23T61524F13	Electrolytic 10 uF/16V
C613	23T43247F08	Electrolytic 4.7 uF/25V
C614	23T61523F29	Electrolytic 1.0 uF/50V
C615	23T43707U05	Electrolytic 220 uF 16V
C616	23T61524F18	Electrolytic 4.7 uF/25V
C617	23T61524F18	Electrolytic 4.7 uF/25V
C618	23T61524F18	Electrolytic 4.7 uF/25V
C619	23T61524F18	Electrolytic 4.7 uF/25V
C620	23T61524F18	Electrolytic 4.7 uF/25V
C621	23T61524F18	Electrolytic 4.7 uF/25V
C622	23T61524F18	Electrolytic 4.7 uF/25V
C623	23T43247F09	Electrolytic 10 uF/16V
C624	08T50579F17	TF 0.22 uF
C625	23T61524F32	Electrolytic 1.0 uF/50V
C626	23T61524F05	Electrolytic 22 uF/6.3V
C627	23T43247F11	Electrolytic 33 uF/10V
C628	23S41198U33	Electrolytic 100 uF/10V
C629	23S41198U33	Electrolytic 100 uF/10V
C630	23T43247F09	Electrolytic 10 uF/16V
C665	23T61523F12	Electrolytic 10 uF/16V

Resistors

R601	06S53330F65	Chip	3.3K ohm 1/8W
R602	06S53330F53	Chip	1K ohm 1/8W
R603	06S53330F05	Chip	10 ohm 1/8W
R604	06S53330F59	Chip	1.8K ohm 1/8W
R605	06S53330F34	Chip	160 ohm 1/8W
R606	06S53330F93	Chip	47K ohm 1/8W
R607	06S53330F69	Chip	4.7K ohm 1/8W
R608	06S53330F84	Chip	20K ohm 1/8W
R609	06S53330F81	Chip	15K ohm 1/8W

Symbol No.	Part No.	Description
R610	06S53330F69	Chip 4.7K ohm 1/8W
R611	06S53330F93	Chip 47K ohm 1/8W
R612	06T70072F47	Chip 560 ohm 1/4W
R613	06S53330F77	Chip 10K ohm 1/8W
R614	06S53330F21	Chip 47 ohm 1/8W
R615	06S53330F77	Chip 10K ohm 1/8W
R616	06S53330F77	Chip 10K ohm 1/8W
R617	06S53330F95	Chip 56K ohm 1/8W
R618	06S53330F93	Chip 47K ohm 1/8W
R619	06S53330F29	Chip 100 ohm 1/8W
R620	06S53330F77	Chip 10K ohm 1/8W
R621	06S53330F77	Chip 10K ohm 1/8W
R622	06S53330F65	Chip 3.3K ohm 1/8W
R623	05S53331F24	Chip 820K ohm 1/8W
R624	06S53331F12	Chip 270K ohm 1/8W
R625	06S53330F53	Chip 1K ohm 1/8W
R626	06S53331F27	Chip 1.2M ohm 1/8W
R627	06S53330F77	Chip 10K ohm 1/8W
R628	06S53330F71	Chip 5.6K ohm 1/8W
R629	06S53330F53	Chip 1K ohm 1/8W
R630	06S53330F85	Chip 22K ohm 1/8W
R631	06S53330F71	Chip 5.6K ohm 1/8W
R632	06S53330F71	Chip 5.6K ohm 1/8W
R633	06S53330F57	Chip 1.5K ohm 1/8W
R634	06S53330F37	Chip 220 ohm 1/8W
R635	06S53330F53	Chip 1K ohm 1/8W
R636	06S53331F02	Chip 100K ohm 1/8W
R639	06S53331F02	Chip 100K ohm 1/8W
VR601	18T42748F13	Variable, Volume, 10K ohm

Front Chassis/Display P.C. Board

Transistor

PT901	48T66782F01	Photo, PN202S

Symbol No.	Part No.	Description
LEDs		
LD901	48T51833F04	LED, AA4524K (ORG) (1)
LD902	48T51833F04	LED, AA4524K (ORG) (1)
LD903	48T51833F04	LED, AA4524K (ORG) (2)
LD904	48T51833F04	LED, AA4524K (ORG) (2)
LD905	48T51833F04	LED, AA4524K (ORG) (3)
LD906	48T51833F04	LED, AA4524K (ORG) (3)
LD907	48T51833F04	LED, AA4524K (ORG) (4)
LD908	48T51833F04	LED, AA4524K (ORG) (4)
LD909	48T51833F04	LED, AA4524K (RED) (5)
LD910	48T51833F04	LED, AA4524K (ORG) (5)
LD911	48T51833F04	LED, AA4524K (ORG) (6)
LD912	48T51833F04	LED, AA4524K (ORG) (6)
LD913	48T51833F03	LED, BG4524K (GRN) (DOLBY)
LD914	48T51833F03	LED, BG4524K (GRN) (EJECT)
LD917	48T68686F01	LED, LN544GK2. AL
Switches		
S901	40T70366F01	Tact KHL-10906 (FM)
S902	40T70366F01	Tact KHL-10906 (MW/LW)
S903	40T70366F01	Tact KHL-10906 (MONO)
S904	40T70366F01	Tact KHL-10906 (ME)
S905	40T67523F03	Tact KHQ11903 (M.S) (Includes LD918)
S906	40T67523F03	Tact KHQ11903 (B. SKIP) (Includes LD919)
S907	40T67523F04	Tact KHQ110901 (P. SCAN)
S908	40T67523F03	Tact KHQ11903 (SDK) (Includes LD920)
S909	40T67523F03	Tact KHQ11903 (LOC.S) (Includes LD921)
S910	40T70366F01	Tact KHL10906 (UP SEEK)
S911	40T70366F01	Tact KHL-10906 (1)
S912	40T70366F01	Tact KHL-10906 (2)
S913	40T70366F01	Tact KHL-10906 (3)
S914	40T70366F01	Tact KHL-10906 (DN SEEK)
S915	40T70366F01	Tact KHL-10906 (4)
S916	40T70366F01	Tact KHL-10906 (5)
S917	40T70366F01	Tact KHL-10906 (6)
S918	40T70366F01	Tact KHL-10906 (PLAY/PROG)
S919	40T70366F01	Tact KHL-10906 (TAPE PAUSE)

Symbol No.	Part No.	Description
S920	40T70366F01	Tact KHL-10906 (DN/REW)
S921	40T70366F01	Tact KHL-10906 (UP/FF)
S922	40T70366F01	Tact KHL-10906 (EJECT)
S923	40T70366F01	Tact KHL-10906 (DOLBY)
Lamps		
PL901	65T42192F01	Pilot, 6V-65mA
PL902	65T42192F01	Pilot, 6V-65mA
PL903	65T63304F05	Pilot, 6V-65mA
PL905	65T63304F05	Pilot, 6V-65mA
PL906	65T63304F05	Pilot, 6V-65mA
PL907	65T63304F05	Pilot, 6V-65mA
PL908	65T63304F05	Pilot, 6V-65mA
Capacitors		
C415	08S60102F08	Chip 1000 pF
C416	08S60102F08	Chip 1000 pF
C419	08S60102F24	Chip 0.022 uF
C420	08S60102F24	Chip 0.022 uF
C421	08S60102F24	Chip 0.022 uF
C422	08S60102F24	Chip 0.022 uF
Resistors		
R423	06S53330F85	Chip 22K ohm 1/8W
R424	06S53330F85	Chip 22K ohm 1/8W
R425	06S53330F71	Chip 5.6K ohm 1/8W
R426	06S53330F71	Chip 5.6K ohm 1/8W
R427	06S53330F85	Chip 22K ohm 1/8W
R428	06S53330F85	Chip 22K ohm 1/8W
R429	06S53330F77	Chip 10K ohm 1/8W
R430	06S53330F77	Chip 10K ohm 1/8W
R901	06S53330F11	Chip 18 ohm 1/8W
R902	06S53330F11	Chip 18 ohm 1/8W
R903	06T70072F23	Chip 56 ohm 1/4W

Symbol No.	Part No.	Description
R904	06T70072F23	Chip 56 ohm 1/4W
R905	06T70072F23	Chip 56 ohm 1/4W
R906	06T70072F17	Chip 33 ohm 1/4W
R907	06T70072F17	Chip 33 ohm 1/4W
R908	06S53330F07	Chip 12 ohm 1/8W
R909	06S53330F__	Chip 15 ohm 1/8W
R911	06T70072F53	Chip 1K ohm 1/4W
R912	06T70072F53	Chip 1K ohm 1/4W
R913	06T70072F51	Chip 820 ohm 1/4W
R914	06S53330F77	Chip 10K ohm 1/8W
VR404, VR405	18T70739F01	Variable, S1021 100K ohm B (Treble)
VR406, VR407	18T70739F01	Variable, S1021 100K ohm B (Bass)

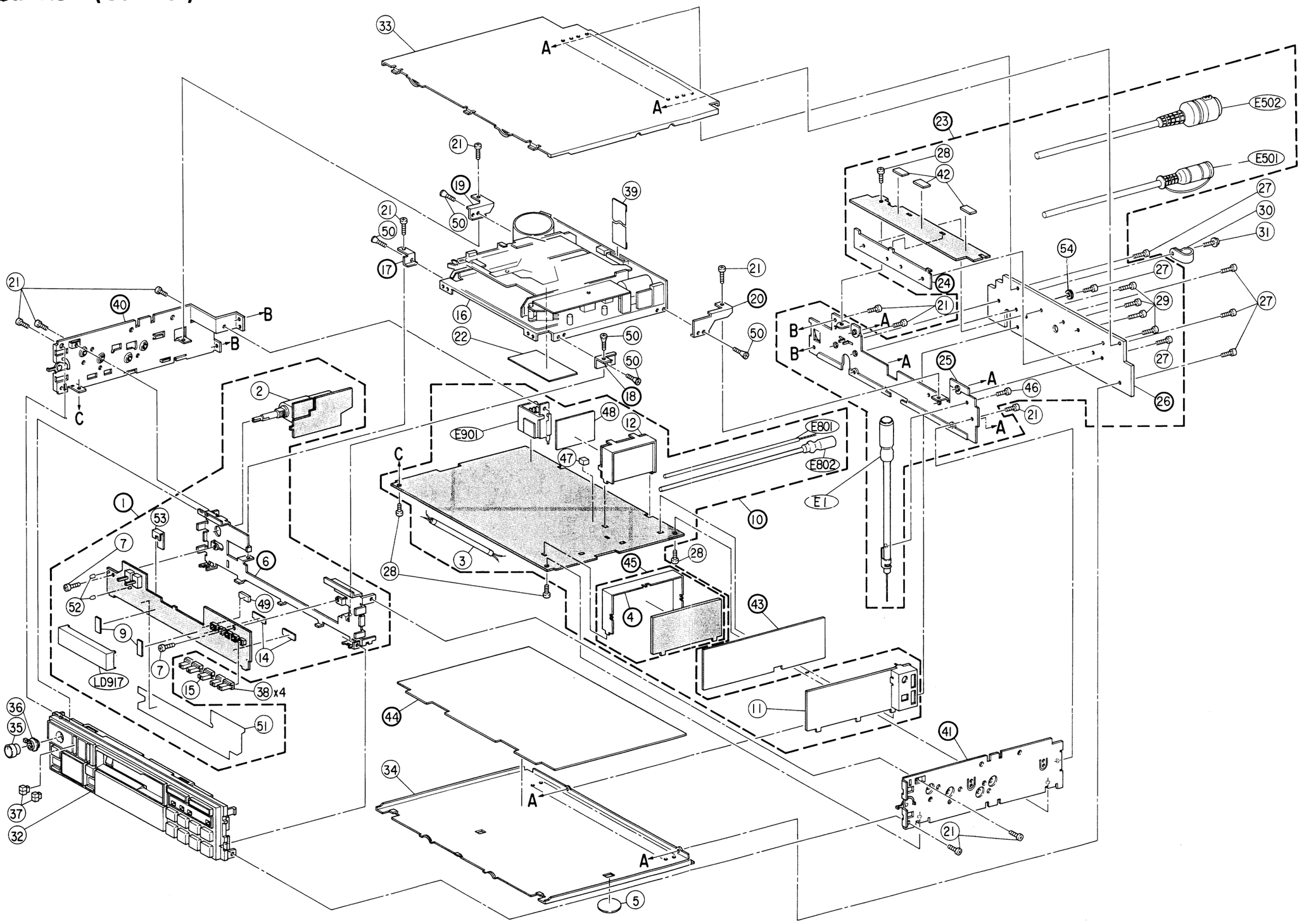
GZ Control P.C. Board

ICs/Transistors		
IC1001	51T68339F01	68339F01
IC1002	51T63506F01	PU4124
IC1003	51T63849F01	BA6109
Q1001	48T52549F01	2SD973A-S
Q1002	48T62540F02	UN1212
or	48T62963F03	DTC124
Q1003	48T52547F02	2SB793A
Q1004	48T52547F02	2SB793A
Q1005	48T62967F03	DTC124
Diodes		
D1001	48T52446F01	MA151WK
D1007	48T52446F01	MA151WK
ZD1002	48T52739F37	Zener, HZ6B-1
ZD1003	48T52739F31	Zener, HZ5C-1
or	48T52739F32	Zener, HZ5C-2
ZD1004	48T52739F31	Zener, HZ5C-1
or	48T52739F32	Zener, HZ5C-2
ZD1005	48T52739F45	Zener, HZ7A-3
or	48T52741F12	Zener, HZ7A-3L
ZD1006	48T62934F23	Zener, RD5.6MBS

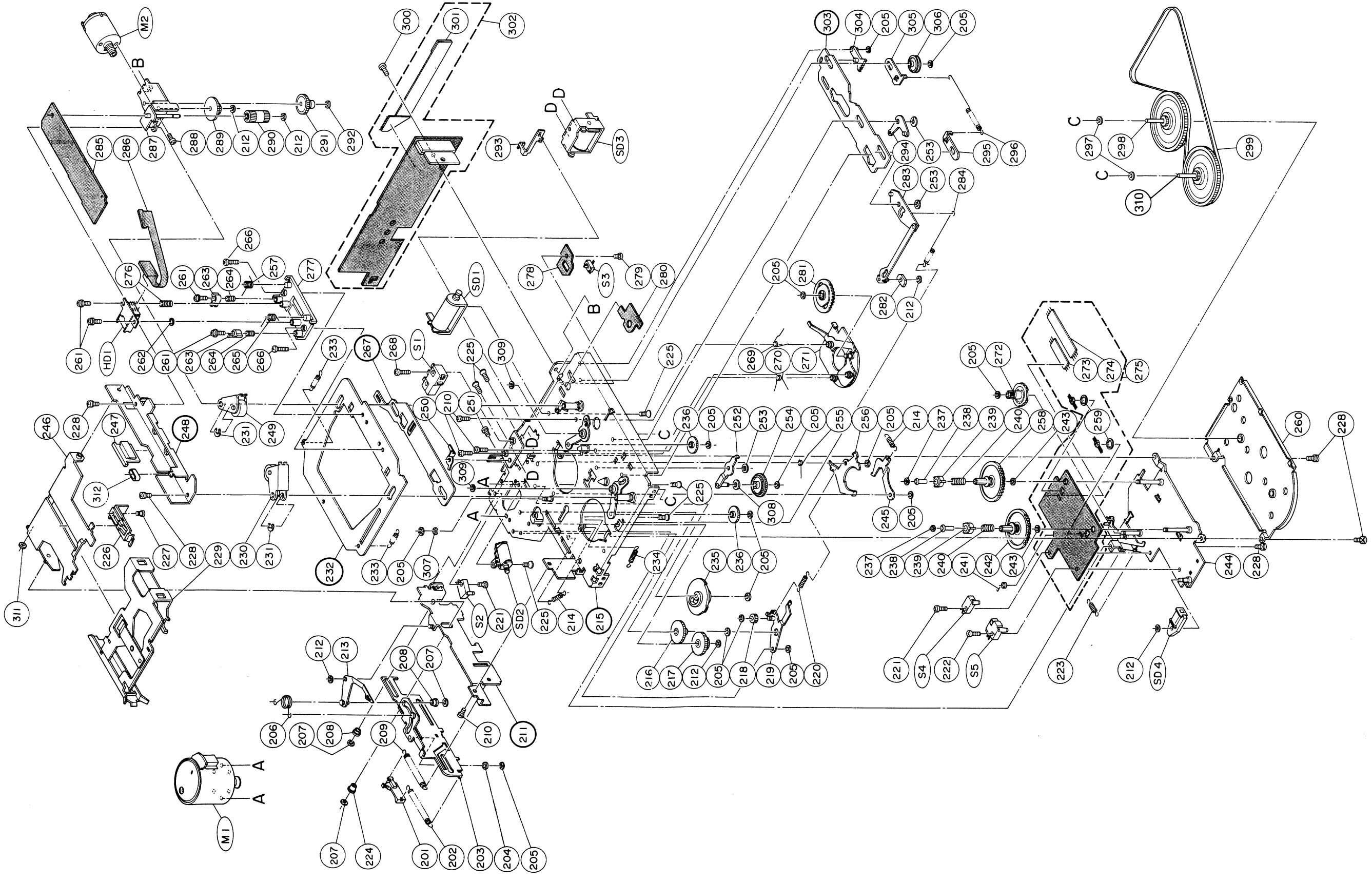
Symbol No.	Part No.	Description
Capacitors		
C1001	23T61523F07	Electrolytic 47 uF/6.3V
C1002	23T61523F07	Electrolytic 47 uF/6.3V
C1003	08S53332F46	Chip 8200 pF
C1004	08S53332F53	Chip 0.33 uF
C1005	08S53332F57	Chip 0.1 uF
C1006	08S53332F47	Chip 0.01 uF
C1007	23T61523F29	Electrolytic 1 uF/50V
C1008	23C44780P16	Electrolytic 100 uF/16V
Resistors	(All resistors are chip parts, 1/8W, ±5% unless otherwise noted.)	
R1001	06S53330F71	Chip 5.6K ohm
R1002	06C43205J10	Metal, Film 82 ohm 1/2W
R1003	06S53330F81	Chip 15K ohm
R1004	06S55428F65	Carbon, Film 1K ohm 1/6W
R1005	06S53330F89	Chip 33K ohm
R1006	06S53330F55	Chip 1.2K ohm
R1007	06S53330F55	Chip 1.2K ohm
R1008	06S53330F55	Chip 1.2K ohm
R1009	06S53330F55	Chip 1.2K ohm
R1010	06C43205J26	Metal, Film 4.7 ohm 1/2W
R1011	06T51015F02	Carbon, Film 3.3 ohm 1/2W
R1012	06S53330F47	Chip 560 ohm
R1014	06S53330F71	Chip 5.6K ohm
R1015	06T51015F32	Carbon, Film 1K ohm 1/2W
R1016	06S53330F77	Chip 10K ohm
R1017	06T51015F32	Carbon, Film 1K ohm 1/2W
R1018	06S53330F77	Chip 10K ohm
Reverse P.C. Board		
Photos		
PT1006	51T63433F01	Sensor
PT1007	51T63433F01	Sensor

Symbol No.	Part No.	Description
Miscellaneous		
E001	09T68242F02	Receptacle Antenna
E501	01T69157F02	Assembly, Pre-Out DIN Connector
E502	01T70377F01	Assembly, Pre-In DIN Connector
E801	01T63637F02	Assembly, Memory Back UP Lead
E802	01T69180F01	Assembly, Wire Dimmer
E901	08T62340F01	Capacitor, Through Box
HD1	88T55320F02	Head, Playback
M1	01V64100F96	Assembly, Motor
M2	01V64100F88	Assembly, RF Motor
S1	40T52216F01	Switch, Micro (Pack in)
S2	40T60329F02	Switch, Leaf (Eject)
S3	40T63432F01	Switch, Slide (For/Rev)
S4	40T60329F03	Switch, Leaf (Position)
S5	40T41665F01	Switch, Slide (Metal)
SD1	01A63213F01	Assembly, Program Solenoid
SD2	01A63215F01	Assembly, Eject Solenoid
SD3	01A63212F01	Assembly, Play Solenoid
SD4	01A63214F01	Assembly, RF Solenoid

Exploded View (Cabinet)



Exploded View (Cassette Deck)



Cabinet Assembly Parts List

Symbol No.	Index	Part No.	Description
1	3-B	※	Assembly Front Chassis/ Display P.C. Board
2	3-B	01V69200F45	Assembly, Volume P.C. Board
3	4-D	30T40388F02	C.W. Shield
4	4-E	※	Case Panel
5	6-E	54S60911F75	Label, Composite-STD
6	4-B	※	Chassis, Front
7		03S44205G07	Screw, Pan (M2.6 x 5)
9	4-B	14S71058F03	Insulator, Cover
10	4-E	※	Assembly, Main P.C. Board
11	5-E	77C70368F01	FM Unit Tuner (MB1E4010)
12	3-D	77T68552F01	AM Unit Timer (BFC731L13)
14	4-B	14S58462F74	Insulator, Cover
15	5-B	36B68375F02	Knob, Push (E)
16	2-D	01V69100F19	Assembly, Cassette Deck (GZ75E030)
17	2-C	※	Bracket, Deck (L)
18	3-D	※	Bracket, Deck (R)
19	2-D	※	Bracket, Deck (L) Rear
20	2-E	※	Bracket, Deck (R) Rear
21		03S44205G30	Screw, Pan (M2.6 x 4)
22	3-D	15B71032F01	Cover, Shield
23	1-F	※	Assembly, Rear Chassis/ Power Amp P.C. Board
24	2-F	※	Bracket, IC
25	3-F	※	Chassis, Rear
26	3-H	※	Heat Sink
27		03S44205G33	Screw, Pan (M2.6 x 8)
28		03S44205G48	Screw, Pan (M2.6 x 5)
29	2-H	03S43997P27	Screw, Bind (M2.6 x 12)
30	2-H	42C67007F06	Clamp, Cord
31	2-H	03S40018G04	Screw, Tapping (M3 x 12)
32	5-A	13D68405F02	Assembly, Nosepiece
33	1-C	15C70634F03	Cover, Top
34	5-C	15C63098F07	Cover, Bottom
35	5-A	36B67701F01	Knob, Control (A)
36	5-A	36B67702F01	Knob, Control (B)
37	5-A	36B68374F01	Knob, Slide

Symbol No.	Index	Part No.	Description
38	5-B	36B68375F01	Knob, Push
39	2-D	30T68688F01	Wire, Parallel
40	2-B	※	Chassis, Side (L)
41	5-F	※	Chassis, Side (R)
42	2-F	75S62361F18	Cushion, Rubber
43	4-E	※	Insulator, Fiber
44	5-C	※	Insulator, Fiber
45	4-E	※	Assembly, SDK P.C. Board
46	3-G	03S40012G03	Screw, Tapping (M3 x 6)
47	3-D	75S62361F92	Cushion, Rubber
48	3-D	14S53018F97	Insulator, Cover
49	4-B	75S62361F94	Cushion, Rubber
50		03S44205G13	Screw, Countersink (M2.6 x 6)
51	5-B	84T68127F01	Panel, Flex
52	4-A	43B45130F05	Bush, Lamp
53	4-B	14A71903F01	Insulator, Cover
54	2-G	04S40072G02	Washer, Toothed Lock (M2.6)

Note: ※ The parts without part numbers are not supplied.

Cassette Deck Assembly Parts List

Symbol No.	Index	Part No.	Description
201	6-C	44A63208F01	Rack
202	6-C	41B63283F02	Spring
203	6-C	01A63490F01	Assembly, Eject Lever Rivet
204		43A64073F01	Eject Roller (C)
205		04A41345P01	Washer, Lock (M1.2)
206	5-B	41A63284F01	Spring, Turn Eject
207		04A41345P15	Washer, Lock (M1.2)
208		43A63282F01	Roller, Eject Arm
209	5-C	41B63283F01	Spring
210		03S56479F08	Screw, W/Washer (M1.7 x 2)
211	5-D	※	Assembly, Guide Plate Rivet
212		04A41345P02	Washer, Lock (M1.7)
213	4-C	01A63489F01	Assembly, Eject Arm Rivet
214		41B63283F05	Spring
215	4-D	※	Assembly, Chassis Rivet
216	5-D	44A63189F01	Gear, Motor Idler
217	5-E	44A63190F01	Gear, Eject Idler
218	5-E	44A63191F01	Gear, Clutch
219	5-E	01A63497F01	Assembly, Clutch Lever Rivet
220	5-E	41B63248F08	Spring
221		03S56479F09	Screw, W/Washer (M1.7 x 6)
222	5-F	03S56479F04	Screw, W/Washer (M2 x 7)
223	5-G	41B63283F07	Spring
224		43A63281F01	Roller, Base Plate
225		03A42931F01	Screw, Countersink (M2.6 x 3)
226	4-A	45B63199F01	Slider
227	4-B	47A63278F01	Shaft Slider
228		03D40014G12	Screw, W/Washer (M2.6 x 4)
229	4-B	01A63494F01	Assembly, Cassette Holder Rivet
230	4-B	01V69200F02	Assembly, Pinch Roller
231		04C42091G04	Ring, E-type (M3)
232	4-C	※	Assembly, Head Base Rivet
233		41B63283F03	Spring
234	4-D	41B63283F04	Spring
235	4-E	01V68400F39	Assembly, Pause Gear
236		44A63196F01	Gear, Take-up
237		04A41345P12	Washer, Lock (M1.7)
238		49A64627F01	Cap, Reel
239		49A64626F01	Ring, Reel
240		41A64628F01	Spring, Reel

Symbol No.	Index	Part No.	Description
241	4-F	41A66291F01	Spring
242	4-F	01T63209F01	Assembly, Reel
243	3-G	04S40075G06	Washer, Polyslider (M2.1)
244	4-H	01A63495F01	Assembly, Reel Shaft
245		45A63173F01	Lever, Play Lock
246	3-A	01A63491F01	Assembly, Plate Base Rivet
247	3-A	07A63203F01	Holder, Guide
248	3-B	※	Holder, Frame
249	3-B	01V69200F03	Assembly, Pinch Roller
250	3-C	45A63178F01	Lever, Micro Switch
251	3-C	03S44205G30	Screw, Pan (M2.6 x 4)
252	3-E	01A63483F01	Assembly, RF Idler Rivet
253		04A41345P04	Washer, Lock (M2.6)
254	3-E	44A63197F01	Gear, RF Idler
255	3-F	41A63285F01	Spring
256	3-F	45A63179F01	Lever, Play Solenoid
257	2-B	41A63286F02	Spring, Pinch Roller
258	3-G	01T63209F02	Assembly, Reel
259	3-G	04S40075G17	Washer, Polyslider (M4.1)
260	3-H	01V64100F95	Assembly, Flywheel Bracket
261		03S40019G03	Screw, F-Lock (M2 x 4)
262		43A44456F06	Spacer, Head
263	3-B	43B63198F01	Guide, Tape
264		41A63290F01	Spring, Tape Guide
265	3-B	41A63286F01	Spring, Pinch Roller
266		03S68259F01	Screw, Pan (M2.6 x 3)
267	3-C	※	Lever, Select
268	3-C	03S56479F02	Screw, W/Washer (M2.3 x 8)
269	3-E	41A63287F01	Spring, Reverse Lock
270	3-E	41A63288F01	Spring, Reverse Act
271	3-E	01A63496F01	Assembly, Frame Reverse Rivet
272	3-F	44B63188F01	Gear, Eject
273	3-G	30T63478F02	Wire, Lead (PC)
274	3-G	30T63478F01	Wire, Lead (PC)
275	3-G	01V64100F92	Assembly, Reel Plate
276	2-A	41A63289F01	Spring, Head
277	2-B	07B63205F01	Frame, Head
278	2-D	84A63235F01	P.C. Board, Program Switch
279	2-D	03S43997P36	Screw, Bind (M2.6 x 3)
280	2-D	84A63234F01	P.C. Board, R/F Switch (Included S6)

NOTE: ※ The parts without part number are not supplied.

Symbol No.	Index	Part No.	Description
281	2-E	44B63187F01	Gear, Change
282	2-F	76A63231F01	Chip
283	2-F	01A63485F01	Assembly, RF Lock Rivet
284	2-F	41B63283F09	Spring
285	2-A	01V69100F14	Assembly, GZ Audio P.C. Board
286	2-A	84T63477F01	P.C. Board, Head
287	2-B	01A63492F01	Assembly, RF Frame Rivet
288	2-B	03S43997P23	Screw, Pan (M2 x 3)
289	2-B	44A63194F01	Gear, RF (B)
290	2-B	44A63193F01	Gear, RF (A)
291	2-C	01A63493F01	Assembly, RF Gear Rivet
292	2-C	04A41345P11	Washer, Lock (M2.1)
293	2-D	45A63174F01	Lever, Solenoid Link
294	2-F	01A63484F01	Assembly, RF Link Rivet
295	2-F	45A63176F01	Lever, RF Spring (B)
296	2-G	41B63283F06	Spring
297	2-G	04S40075G05	Washer, Polyslider (M2.1)
298	2-G	01T63210F01	Assembly, Flywheel
299	2-H	42A40969F01	Belt
300	1-C	03S44205G42	Screw, Pan (M2.6 x 4)
301	1-C	30T68768F01	Cable, Flat (9P)
302	1-D	01V69100F03	Assembly, GZ Control P.C. Board
303	1-E	※	Lever, R/F
304	1-F	44A63207F01	Gear, RF Spring
305	1-F	45A63175F01	Lever, RF Spring (A)
306	1-F	49A63202F01	Pulley, Idler
307	4-C	43A67287F01	Roller, Eject Guide
308	4-E	04A41345P09	Washer, Lock (M2.3)
309		43A44303P03	Washer, Oil Seal (M1.9)
310	2-G	01T63210F02	Assembly, Flywheel
311	4-A	04S40075G11	Washer, Polyslider (M3.1)
312	4-A	75A41807F01	Rubber, Cushion

Symbol No.	Index	Part No.	Description

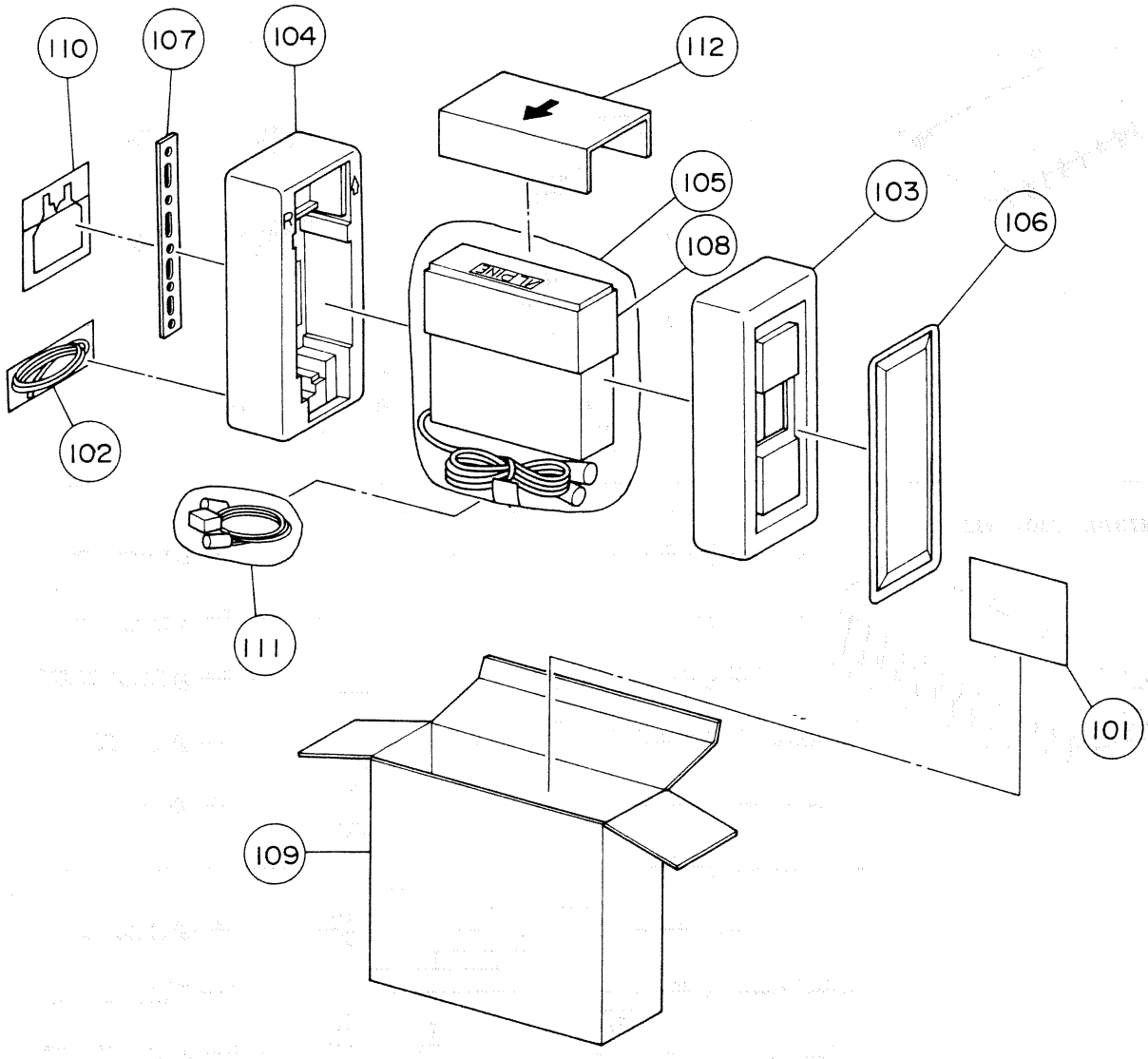
Note: ※ The parts without part numbers are not supplied.

Packing Assembly Parts List

Symbol No.	Part No.	Description
101	68P67499F29	Owner's Manual
102	01V73300F16	Assembly, Installation Kit
102-1	02B47353F01	Nut, Hex. (M5)
102-2	03S40012G66	Screw, Tapping (M5 x 20)
102-3	03B44963F03	Bolt, Hex. W/Washer (M5 x 10)
102-4	45A41684U01	Arm Adapter
102-5	46A42363F01	Stud, Bolt
102-6	65A40348G03	Fuse, 1A
102-7	65A40348G10	Fuse, 7A
102-8	03S52360F90	Screw, Countersink (M4 x 6)
103	56D70378F01	Tray, Packing
104	56D70378F02	Tray, Packing
105	56B40230G07	Sack, Polyethylene
106	33B67735F01	Face, Plate
107	07B64552F01	Bracket Strap Receiver
108	15C55241F01	Case, Inner
109	56S60227F94	Carton, Packing (Individual)
110	01V68400F18	Assembly, Bracket Kit
110-1	07B61917F01	Bracket, Hand
110-2	07B61917F02	Bracket, Hand
110-3	01T62343F01	Assembly, Earth Wire
111	01T68148F01	Assembly, Wire Kit
112	56A71034F01	Pad, Packing
Labels		
	54B42124G01	Serial No. (Side Chassis (R), Individual Carton)
	54S60911F75	Composite (Bottom Cover)

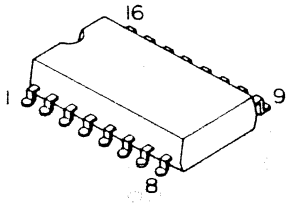
Symbol No.	Part No.	Description

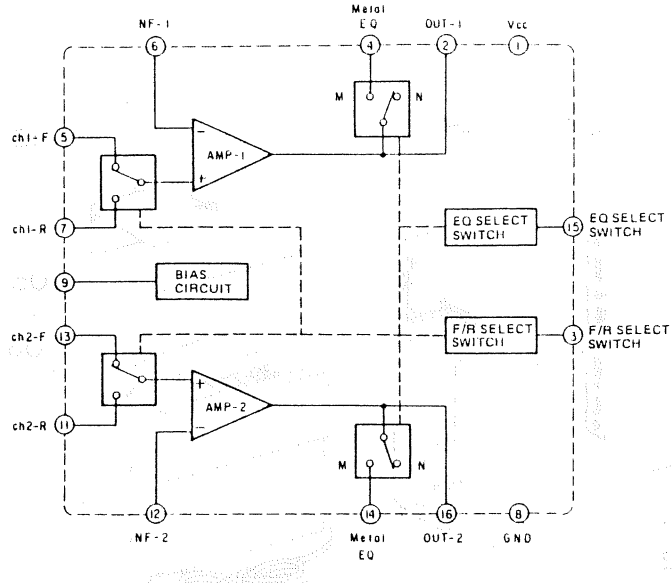
Packing Method View



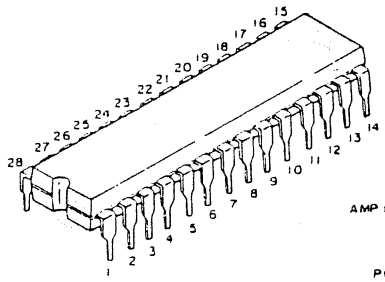
Semi-Conductor Lead Identifications

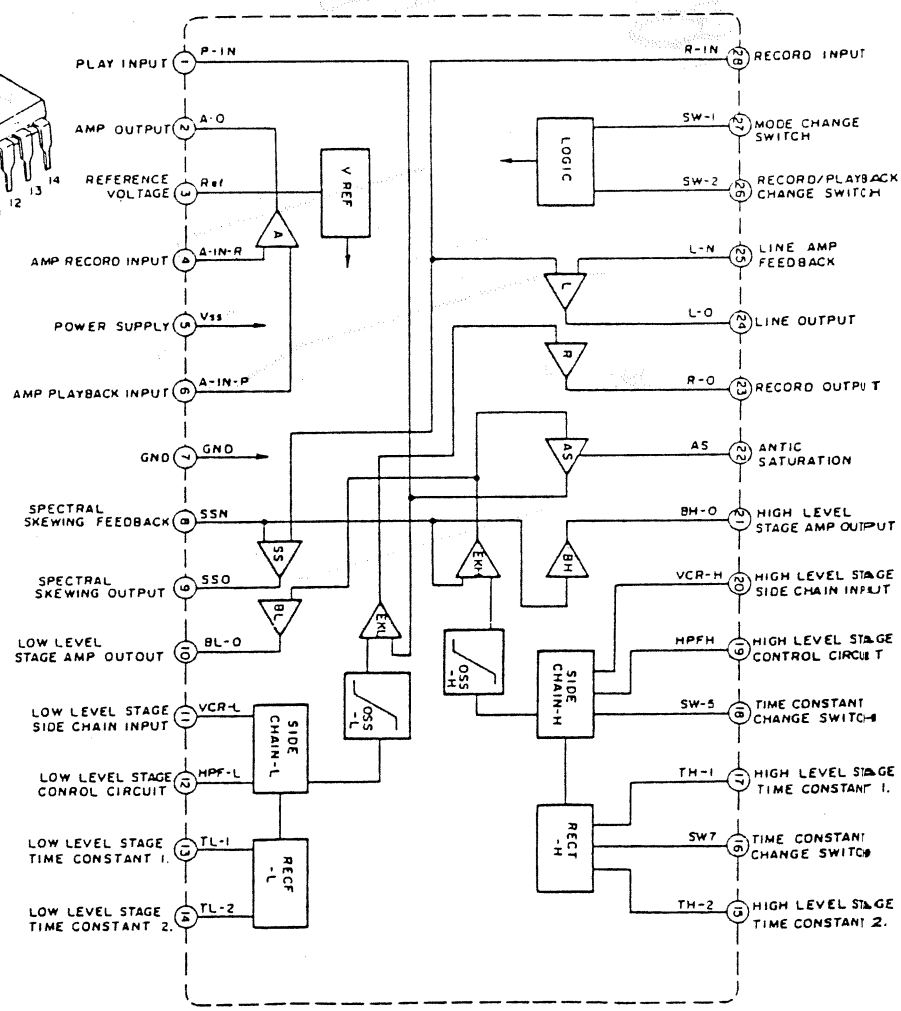
TA7705F: IC201



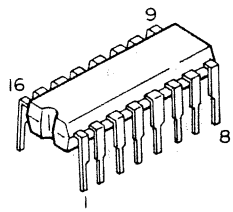


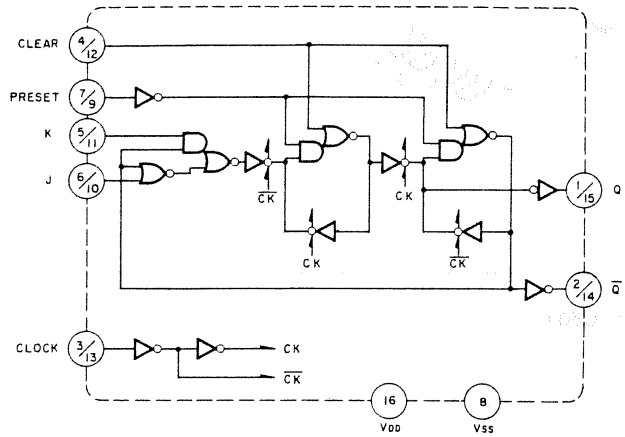
AN7370: IC301, 302



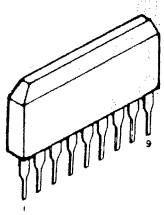


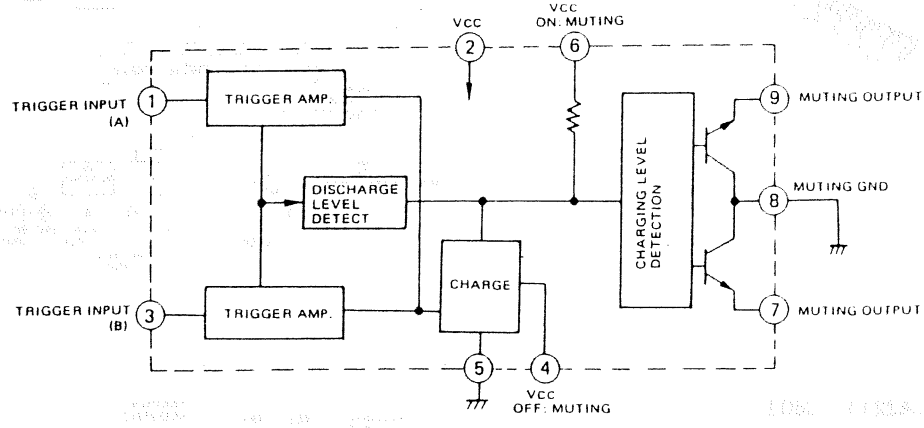
TC4027BP: IC303, 606



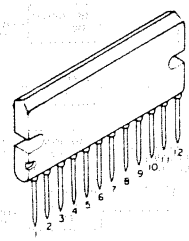


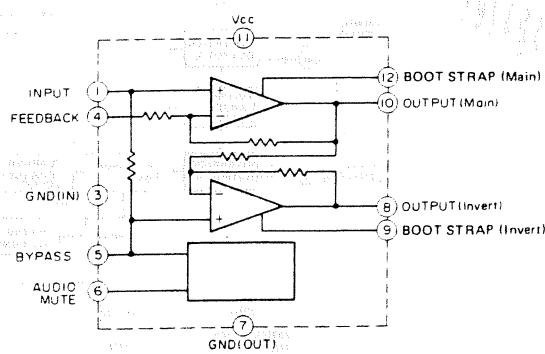
TA7324P: IC401



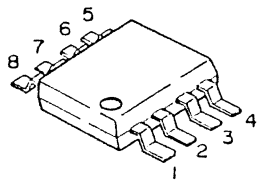


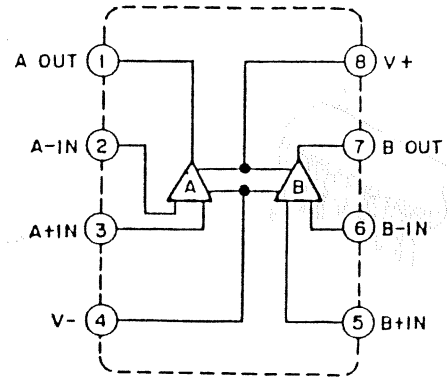
MB3731M: IC501, 502



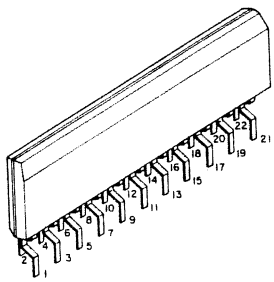


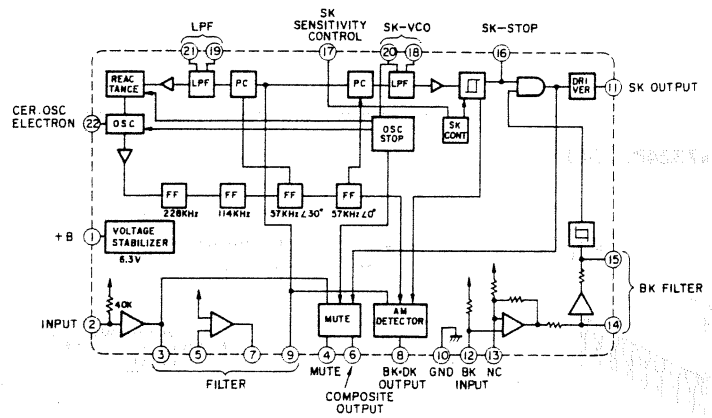
NJM2041D-D: IC503



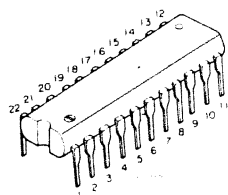


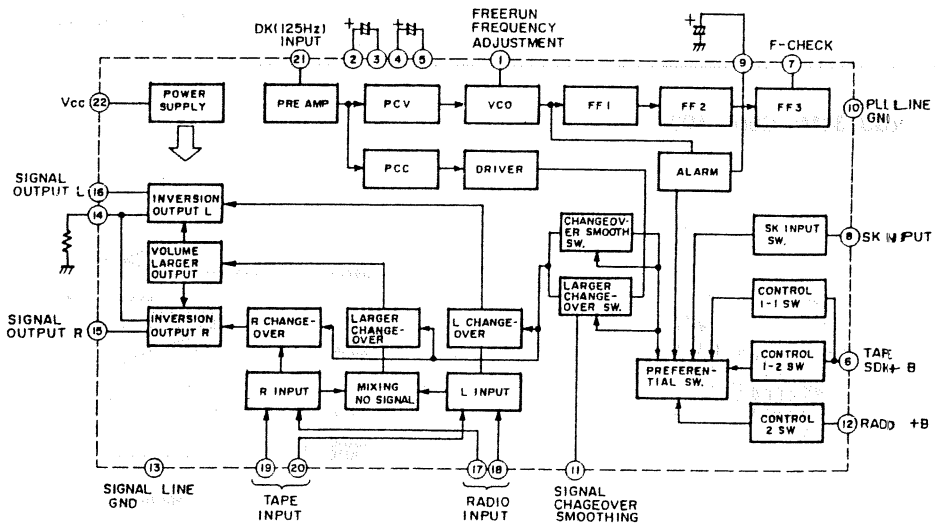
LA2220: IC601



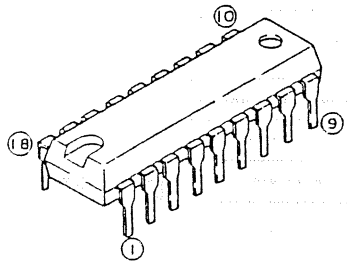


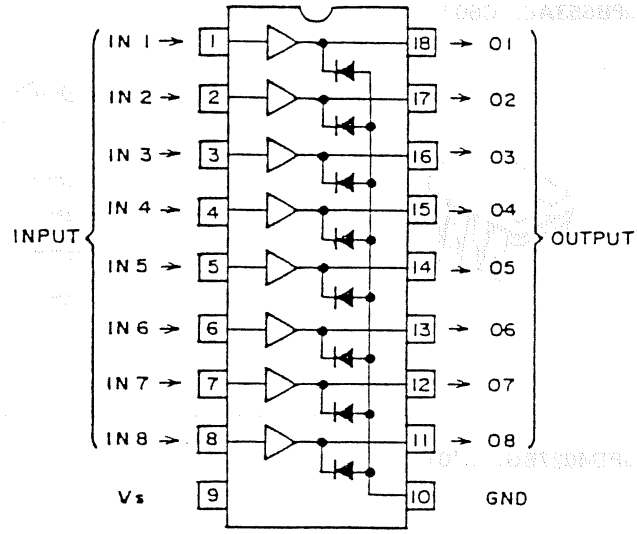
LA2211: IC602



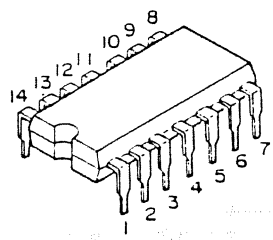


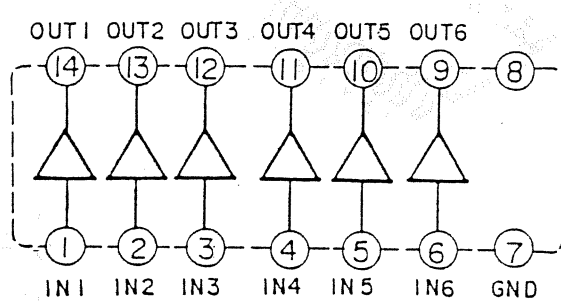
M54563P: IC603



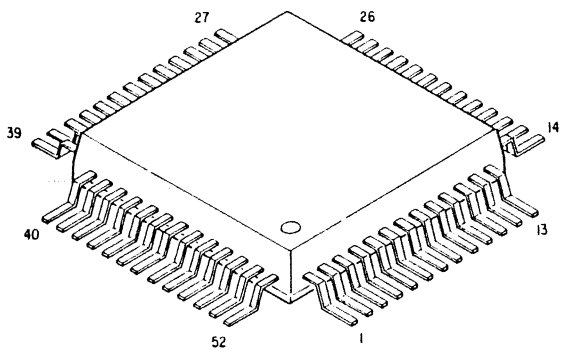


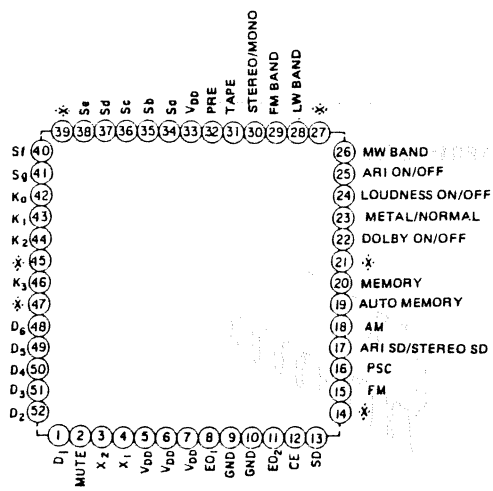
LB1273R: IC604



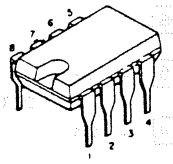


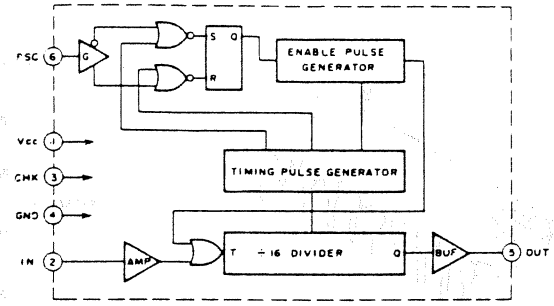
μPD1710G-213: IC605



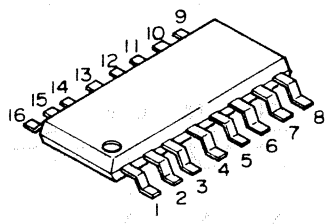


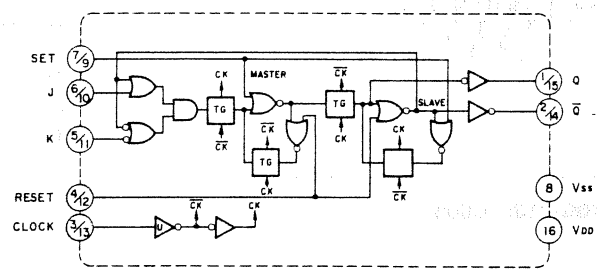
μPB553AC: IC607



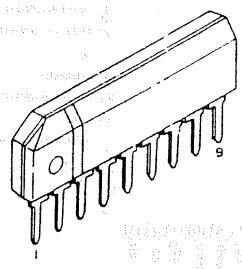


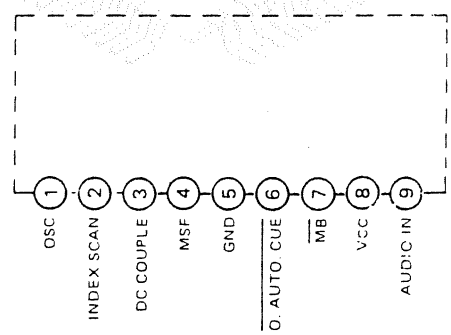
μPD4027BG: IC701



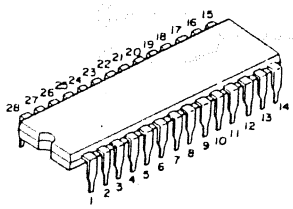


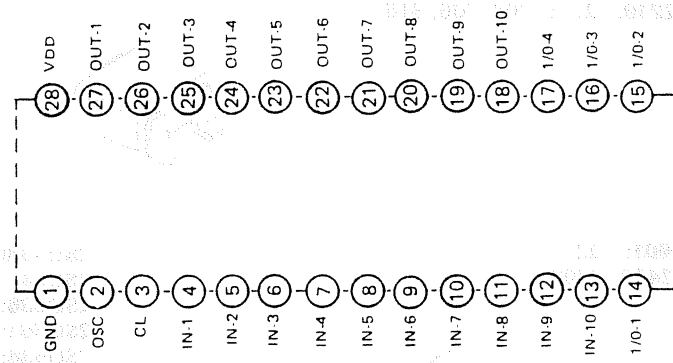
63081F01: IC702



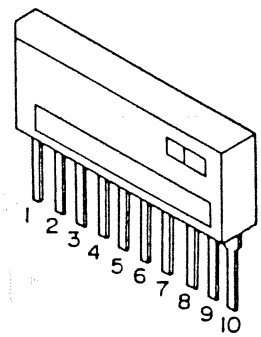


68339F01: IC1001

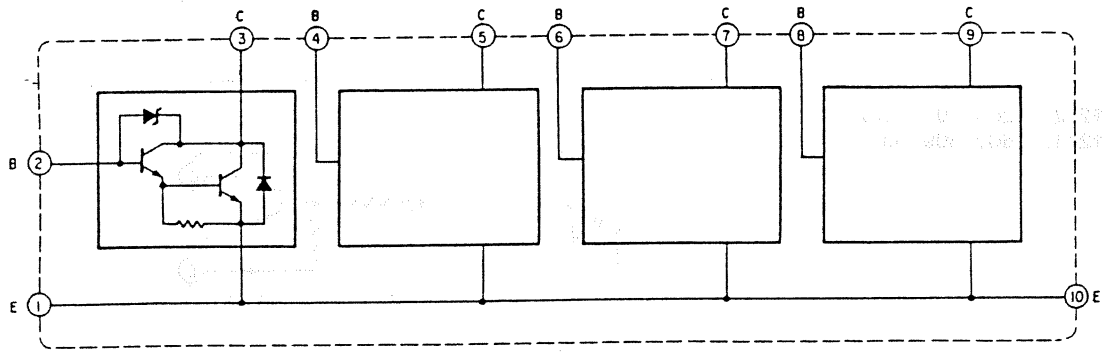




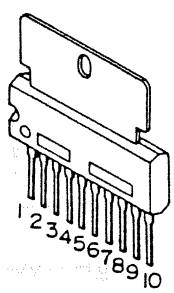
PU4124: IC1002

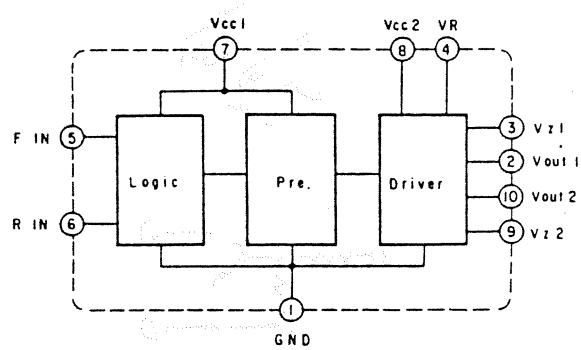


E: EMITTER
C: COLLECTOR
B: BASE

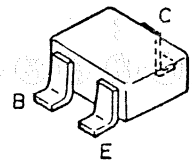


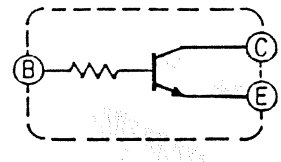
BA6109: IC1003



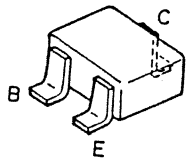


UN2215: Q1, 4, 309, 310, 650, 703, 706, 708, 711, Q712, 713, 715, 817
UN2216: Q3, 5, 704, 705, 816

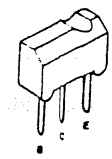




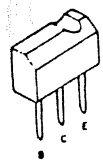
2SD601: Q2
2SC2412: Q608

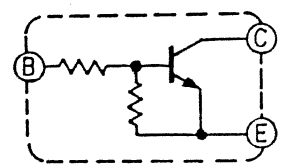


2SD1330: Q103, 405 ∿ 408, 603, 604
2SB641: Q302, 612, 613, 616
2SD636: Q401, 402, 606, 607, 617, 618, 619
2SD661: Q624 ∿ 627
2SD638: Q610, 801, 802, 803, 806, 807
2SD973: Q1001
2SB793: Q1003, 1004

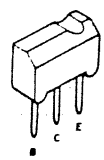


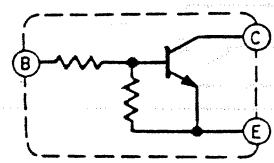
DTC124: Q203, 701, 1002



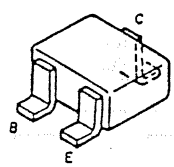


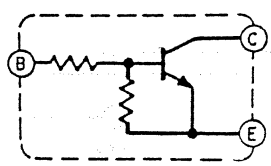
UN1212: Q203, 701, 1002
UN1211: Q602, 609, 631



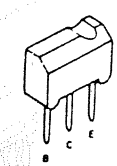


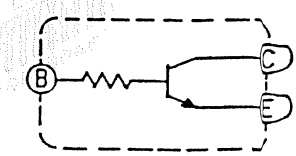
DTC124: Q1005
UN2211: Q709, 710



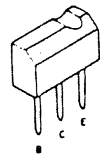


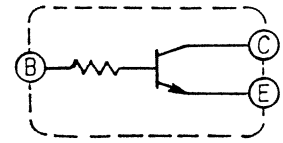
UN1215: Q301, 303, 308, 403, 404, 611, 614, 615, Q620 ∿ 623, 628 ∿ 630, 702, 707, 804, 805, Q808, 809, 810, 814, 818
UN1217: Q305, 601, 605
UN1216: Q306, 307, 811, 812



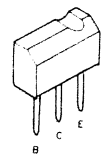


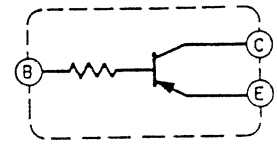
DTC114T: Q301, 303, 308, 611, 614, 615, 620 ∿ 623, Q628 ∿ 630 702, 707, 804, 805, 808, 809, 810, Q814, 818
DTC143T: Q306, 307, 811, 812



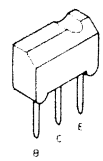


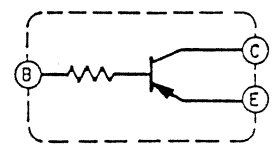
DTA114T: Q304, 813



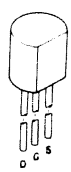


UN1115: Q304, 813

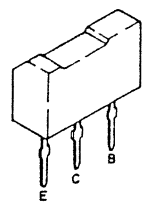




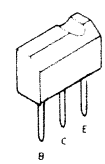
2SK163: Q501, 502



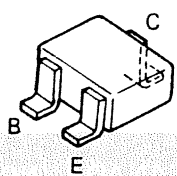
2SD1228: Q610, 801, 802, 803, 806, 807

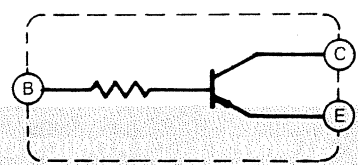


2SC2021: Q617, 618, 619



UN2117: Q641





PN202: PT901